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(54) Title: NOVEL INHIBITORS OF AGGRECANASE AND MATRIX METALLOPROTEINASES FOR THE TREATMENT OF ARTHRITIS

(57) Abstract

This invention relates to molecules which inhibit metalloproteinases, including aggrecanase, and the production of tumor necrosis factor (TNF). In particular, the compounds are inhibitors of metalloproteinases involved in tissue degradation and inhibitors of the release of tumor necrosis factor. The present invention also relates to pharmaceutical compositions comprising such compounds and to methods of using these compounds for the treatment of inflammatory diseases.

Atty. Docket No. 01414/1/US Serial No.10/722,104 Becker et al. Reference 24

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TITLE

NOVEL INHIBITORS OF AGGRECANASE AND MATRIX METALLOPROTEINASES FOR THE TREATMENT OF ARTHRITIS

FIELD OF THE INVENTION

10 The present invention relates to novel molecules which inhibit metalloproteinases, including aggrecanase, and the production of tumor necrosis factor (TNF), pharmaceutical preparations containing them and to their use as pharmaceutical agents. In 15 particular the compounds are inhibitors of metalloproteinases involved in tissue degradation and inhibitors of the release of tumor necrosis factor.

BACKGROUND OF THE INVENTION

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There is now a body of evidence that metalloproteinases (MP) are important in the uncontrolled breakdown of connective tissue, including proteoglycan and collagen, leading to resorption of the extracellular matrix. This is a feature of many pathological conditions, such as rheumatoid and osteoarthritis, corneal, epidermal or gastric ulceration; tumor metastasis or invasion; periodontal disease and bone disease. Normally these catabolic enzymes are tightly regulated at the level of their 30 synthesis as well as at their level of extracellular activity through the action of specific inhibitors, such as alpha-2-macroglobulins and TIMP (tissue inhibitor of metalloproteinase), which form inactive 35 complexes with the MP's.

Osteo- and Rheumatoid Arthritis (OA and RA respectively) are destructive diseases of articular cartilage characterized by localized erosion of the cartilage surface. Findings have shown that articular 5 cartilage from the femoral heads of patients with OA, for example, had a reduced incorporation of radiolabeled sulfate over controls, suggesting that there must be an enhanced rate of cartilage degradation in OA (Mankin et al. J. Bone Joint Surg. 52A, 1970, 10 424-434). There are four classes of protein degradative enzymes in mammalian cells: serine, cysteine, aspartic and metalloproteinases. The available evidence supports that it is the metalloproteinases which are responsible for the degradation of the extracellular matrix of articullar cartilage in OA and RA. Increased activities 15 of collagenases and stromelysin have been found in OA cartilage and the activity correlates with severity of the lesion (Mankin et al. Arthritis Rheum. 21, 1978, 761-766, Woessner et al. Arthritis Rheum. 26, 1983, 63-68 and Ibid. 27, 1984, 305-312). In addition, 20 aggrecanase (a newly identified metalloproteinase enzymatic activity) has been identified that provides the specific cleavage product of proteoglycan, found in RA and OA patients (Lohmander L.S. et al. Arthritis 25 Rheum. 36, 1993, 1214-22).

Therefore metalloproteinases (MP) have been implicated as the key enzymes in the destruction of mammalian cartilage and bone. It can be expected that the pathogenesis of such diseases can be modified in a beneficial manner by the administration of MP inhibitors, and many compounds have been suggested for this purpose (see Wahl et al. Ann. Rep. Med. Chem. 25, 175-184, AP, San Diego, 1990).

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This invention describes novel molecules that

inhibit aggrecanase and other metalloproteinases. These
novel molecules are provided as cartilage protecting

therapeutics. The inhibition of aggrecanase and other metalloproteinases by these novel molecules prevent the degradation of cartilage by these enzymes, thereby alleviating the pathological conditions of osteo- and rheumatoid arthritis.

Tumor necrosis factor (TNF) is a cell associated cytokine that is processed from a 26kD precursor form to a 17kD active form. TNF has been shown to be a primary mediator in humans and in animals, of inflammation, fever, and acute phase responses, similar 10 to those observed during acute infection and shock. Excess TNF has been shown to be lethal. There is now considerable evidence that blocking the effects of TNF with specific antibodies can be beneficial in a variety of circumstances including autoimmune diseases such as 15 rheumatoid arthritis (Feldman et al, Lancet, 1994, 344, 1105) and non-insulin dependent diabetes melitus. (Lohmander L.S. et al. Arthritis Rheum. 36, 1993, 1214-22) and Crohn's disease (Macdonald T. et al. Clin. Exp. 20 Immunol. 81, 1990, 301).

Compounds which inhibit the production of TNF are therefore of therapeutic importance for the treatment of inflammatory disorders. Recently it has been shown that a matrix metalloproteinase or family of 25 metalloproteinases, hereafter known as TNF-convertases (TNF-C), as well as other MP's are capable of cleaving TNF from its inactive to active form (Gearing et al Nature, 1994, 370, 555). This invention describes novel molecules that inhibit this conversion and hence the 30 secretion of active TNF- α from cells. These novel molecules provide a means of mechanism based therapeutic intervention for diseases including but not restricted to septic shock, haemodynamic shock, sepsis syndrome, post ischaemic reperfusion injury, malaria, 35 Crohn's disease, inflammatory bowel diseases, mycobacterial infection, meningitis, psoriasis,

congestive heart failure, fibrotic diseases, cachexia, graft rejection, cancer, diseases involving angiogenesis, autoimmune diseases, skin inflammatory diseases, rheumatoid arthritis, multiple sclerosis, radiation damage, hyperoxic alveolar injury, HIV and non-insulin dependent diabetes melitus.

Since excessive TNF production has been noted in several disease conditions also characterized by MMP-mediated tissue degradation, compounds which inhibit both MMPs and TNF production may also have a particular advantage in diseases where both mechanisms are involved.

There are several patents which disclose hydroxamate and carboxylate based MMP inhibitors.

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PCT International Publication No. WO 92/213260 describes N-carboxyalkylpeptidyl compounds of general formula:

$$R^3O_2C$$
 R^1
 R^2
[AA]x

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wherein AA is an amino acid, as inhibitors of matrix metallproteinase mediated diseases.

PCT International Publication No. WO 90/05716 discloses hydroxamic acid based collagenase inhibitors having the general formula:

PCT International Publication No. WO 92/13831 describes related hydroxamic acids having collagenase inhibiting activity with the general formula:

HONHCO
$$\begin{array}{c}
R^{2} \\
R^{1}
\end{array}$$

$$\begin{array}{c}
R^{6} \\
R^{6}
\end{array}$$

$$\begin{array}{c}
R^{3} \\
R^{4}
\end{array}$$

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PCT International Publication No. WO 94/02446 discloses metalloproteinase inhibitors which are natural amino acid derivatives of general formula:

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WO95/09841 describes compounds that are hydroxamic acid derivatives and are inhibitors of cytokine production.

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European Patent Application Publication No. 574,758 Al, discloses hydroxamic acid derivatives as collagenase inhibitors having the general formula:

GB 2 268 934 A and WO 94/24140 claim hydroxamate inhibitors of MMPs as inhibitors of TNF production.

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The compounds of the current invention act as inhibitors of MPs, in particular aggrecanase and TNF-C, thereby preventing cartilage loss and destruction and inflammatory disorders involving TNF. The hydroxamic and carboxylic acids and derivatives contain a cyclic peptide mimic attached to a succinate peptide mimic, and thus the inhibitors are non-peptide in nature. A selection of these molecules are water soluble and are orally bioavailable.

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SUMMARY OF THE INVENTION

This invention provides novel hydroxamic acids and carboxylic acids and derivatives thereof of formula (I) (described below) which are useful as inhibitors of metalloproteinases, such as aggrecanase and TNF-C. The present invention also includes pharmaceutical compositions comprising such compounds of formula (I) and methods of using such compounds for the treatment of arthritis and other inflammatory disorders as described previously, in a patient.

Also included in the present invention are pharmaceutical kits comprising one or more containers containing pharmaceutical dosage units comprising a compound of formula (I), for the treatment of arthritis

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and/or therapeutic agents for the treatment of arthritis and inflammation.

DEFINITIONS

5 The compounds herein described may have asymmetric centers. Compounds of the present invention containing an asymmetrically substituted atom may be isolated in optically active or racemic forms. It is well known in the art how to prepare optically active forms, such as 10 by resolution of racemic forms or by synthesis from optically active starting materials. Many geometric isomers of olefins, C=N double bonds, and the like can also be present in the compounds described herein, and all such stable isomers are contemplated in the present 15 invention. Cis and trans geometric isomers of the compounds of the present invention are described and may be isolated as a mixture of isomers or as separated isomeric forms. All chiral, diastereomeric, racemic forms and all geometric isomeric forms of a structure 20 are intended, unless the specific stereochemistry or isomeric form is specifically indicated.

The term "substituted," as used herein, means that any one or more hydrogens on the designated atom is replaced with a selection from the indicated group, provided that the designated atom's normal valency is not exceeded, and that the substitution results in a stable compound. When a substitution is keto (i.e., =0), then 2 hydrogens on the atom are replaced.

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When any variable (e.g., R^b) occurs more than one time in any constituent or formula for a compound, its definition at each occurrence is independent of its definition at every other occurrence. Thus, for example, if a group is shown to be substituted with 0-2 R⁶, then said group may optionally be substituted with up to two R⁶ groups and R⁶ at each occurrence is selected independently from the definition of R⁶.

Also, combinations of substituents and/or variables are permissible only if such combinations result in stable compounds.

When a bond to a substituent is shown to cross a bond connecting two atoms in a ring, then such substituent may be bonded to any atom on the ring. When a substituent is listed without indicating the atom via which such substituent is bonded to the rest of the compound of a given formula, then such substituent may be bonded via any atom in such substituent. Combinations of substituents and/or variables are permissible only if such combinations result in stable compounds.

As used herein, "H" is intended to include

15 substitutions with deuterium or tritium. Where "H" is
not indicated but is part of a bond then substitutions
with deuterium or tritium are also intentded.

As used herein, "C1-10 alkyl" or "C1-10 alkylene" is intended to include both branched and straight-chain saturated aliphatic hydrocarbon groups having the specified number of carbon atoms, examples of which include, but are not limited to, methyl, ethyl, n-propyl, i-propyl, n-butyl, i-butyl, sec-butyl, t-butyl, pentyl, and hexyl;

25 "Alkenyl" or "alkenylene" is intended to include hydrocarbon chains of either a straight or branched configuration and one or more unsaturated carbon-carbon bonds which may occur in any stable point along the chain, such as ethenyl, propenyl, and the like.

"Alkynyl" or "alkynylene" is intended to include hydrocarbon chains of either a straight or branched configuration and one or more carbon-carbon triple bonds which may occur in any stable point along the chain, such as ethynyl, propynyl, and the like.

As used herein, "aryl" or "aromatic residue" is intended to include phenyl or naphthyl as well as

commonly referred to "heterocycle" or "heteroaryl" or "heterocyclic" compounds.

As used herein the term "alkylaryl" represents an aryl group attached through an alkyl bridge.

"Halo" or "halogen" as used herein refers to fluoro, chloro, bromo, and iodo; and "counterion" is used to represent a small, negatively charged species such as chloride, bromide, hydroxide, acetate, sulfate, and the like.

As used herein, "carbocycle" or "carbocyclic residue" is intended to mean any stable 3- to 7-membered monocyclic or bicyclic or 7- to 13-membered bicyclic or tricyclic, any of which may be saturated, partially unsaturated, or aromatic. Examples of such carbocycles include, but are not limited to, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, adamantyl, cyclooctyl, [3.3.0]bicyclooctane, [4.3.0]bicyclooctane, [4.4.0]bicyclodecane (decalin), [2.2.2]bicyclooctane, fluorenyl, phenyl, naphthyl, indanyl, adamantyl, or tetrahydronaphthyl (tetralin).

As used herein, the term "heterocycle" or "heterocyclic system" is intended to mean a stable 5to 7- membered monocyclic or bicyclic or 7- to 25 14-membered bicyclic heterocyclic ring which is saturated partially unsaturated or unsaturated (aromatic), and which consists of carbon atoms and from 1 to 4 heteroatoms independently selected from the group consisting of N, O and S and including any 30 bicyclic group in which any of the above-defined heterocyclic rings is fused to a benzene ring. The nitrogen and sulfur heteroatoms may optionally be oxidized. The heterocyclic ring may be attached to its pendant group at any heteroatom or carbon atom which 35 results in a stable structure. The heterocyclic rings described herein may be substituted on carbon or on a

nitrogen atom if the resulting compound is stable. specifically noted, a nitrogen in the heterocycle may optionally be quaternized. It is preferred that when the total number of S and O atoms in the heterocycle 5 exceeds 1, then these heteroatoms are not adjacent to one another. It is preferred that the total number of S and O atoms in the heterocycle is not more than 1.

As used herein, the term "aromatic heterocyclic system" is intended to mean a stable 5- to 7- membered 10 monocyclic or bicyclic or 7- to 14-membered bicyclic heterocyclic aromatic ring which consists of carbon atoms and from 1 to 4 heterotams independently selected from the group consisting of N, O and S. preferred that the total number of S and O atoms in the aromatic heterocycle is not more than 1.

Examples of heterocycles include, but are not limited to, 1H-indazole, 2-pyrrolidonyl, 2H, 6H-1, 5, 2-dithiazinyl, 2H-pyrrolyl, 3H-indolyl, 4-piperidonyl, 4aH-carbazole, 4H-quinolizinyl,

20 6H-1,2,5-thiadiazinyl, acridinyl, azocinyl, benzimidazolyl, benzofuranyl, benzothiofuranyl, benzothiophenyl, benzoxazolyl, benzthiazolyl, benztriazolyl, benztetrazolyl, benzisoxazolyl, benzisothiazolyl, benzimidazalonyl, carbazolyl,

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25 4aH-carbazolyl, b-carbolinyl, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, 2H, 6H-1, 5, 2-dithiazinyl,

dihydrofuro[2,3-b]tetrahydrofuran, furanyl, furazanyl, imidazolidinyl, imidazolinyl, imidazolyl, 1H-indazolyl,

- 30 indolenyl, indolinyl, indolizinyl, indolyl, isobenzofuranyl, isochromanyl, isoindazolyl, isoindolinyl, isoindolyl, isoquinolinyl, isothiazolyl, isoxazolyl, morpholinyl, naphthyridinyl, octahydroisoquinolinyl, oxadiazolyl, 1,2,3-oxadiazolyl,
- 35 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, oxazolidinyl, oxazolyl,

oxazolidinylperimidinyl, phenanthridinyl, phenanthrolinyl, phenarsazinyl, phenazinyl, phenothiazinyl, phenoxathiinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidinyl, pteridinyl,

- piperidonyl, 4-piperidonyl, pteridinyl, purinyl, pyranyl, pyrazinyl, pyrazolidinyl, pyrazolinyl, pyrazolyl, pyridazinyl, pyridooxazole, pyridoimidazole, pyridothiazole, pyridinyl, pyridyl, pyrimidinyl, pyrrolidinyl, pyrrolinyl, pyrrolyl, quinazolinyl,
- quinolinyl, 4H-quinolizinyl, quinoxalinyl,
 quinuclidinyl, carbolinyl, tetrahydrofuranyl,
 tetrahydroisoquinolinyl, tetrahydroquinolinyl,
 6H-1,2,5-thiadiazinyl, 1,2,3-thiadiazolyl,
 1,2,4-thiadiazolyl, 1,2,5-thiadiazolyl,
- 15 1,3,4-thiadiazolyl, thianthrenyl, thiazolyl, thienyl,
 thienothiazolyl, thienoxazolyl, thienoimidazolyl,
 thiophenyl, triazinyl, 1,2,3-triazolyl,
 1,2,4-triazolyl, 1,2,5-triazolyl, 1,3,4-triazolyl,
 xanthenyl. Preferred heterocycles include, but are not
- 20 limited to, pyridinyl, furanyl, thienyl, pyrrolyl,
 pyrazolyl, imidazolyl, indolyl, benzimidazolyl,
 1H-indazolyl, oxazolidinyl, benzotriazolyl,
 benzisoxazolyl, oxindolyl, benzoxazolinyl, or
 isatinoyl. Also included are fused ring and spiro
 25 compounds containing, for example, the above
 heterocycles.

The term "amino acid" as used herein means an organic compound containing both a basic amino group and an acidic carboxyl group. Included within this term are natural amino acids (e.g., L-amino acids), modified and unusual amino acids (e.g., D-amino acids), as well as amino acids which are known to occur biologically in free or combined form but usually do not occur in proteins. Included within this term are modified and unusual amino acids, such as those disclosed in, for example, Roberts and Vellaccio (1983)

The Peptides, 5: 342-429, the teaching of which is hereby incorporated by reference. Natural protein occurring amino acids include, but are not limited to, alanine, arginine, asparagine, aspartic acid, cysteine,

- glutamic acid, glutamine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, serine, threonine, tyrosine, tyrosine, tryptophan, proline, and valine. Natural non-protein amino acids include, but are not limited to arginosuccinic acid,
- 10 citrulline, cysteine sulfinic acid, 3,4-dihydroxyphenylalanine, homocysteine, homoserine, ornithine, 3-monoiodotyrosine, 3,5-diiodotryosine, 3,5,5'-triiodothyronine, and
- 3,3',5,5'-tetraiodothyronine. Modified or unusual 15 amino acids which can be used to practice the invention include, but are not limited to, D-amino acids, hydroxylysine, 4-hydroxyproline, an N-Cbz-protected amino acid, 2,4-diaminobutyric acid, homoarginine, norleucine, N-methylaminobutyric acid, naphthylalanine,
- 20 phenylglycine, ß-phenylproline, tert-leucine, 4-aminocyclohexylalanine, N-methyl-norleucine, 3,4-dehydroproline, N,N-dimethylaminoglycine, N-methylaminoglycine, 4-aminopiperidine-4-carboxylic acid, 6-aminocaproic acid,
- 25 trans-4-(aminomethyl)-cyclohexanecarboxylic acid, 2-, 3-, and 4-(aminomethyl)-benzoic acid, 1-aminocyclopentanecarboxylic acid, 1-aminocyclopropanecarboxylic acid, and 2-benzyl-5-aminopentanoic acid.
- 30 The phrase "pharmaceutically acceptable" is employed herein to refer to those compounds, materials, compositions, and/or dosage forms which are, within the scope of sound medical judgment, suitable for use in contact with the tissues of human beings and animals 35 without excessive toxicity, irritation, allergic

response, or other problem or complication, commensurate with a reasonable benefit/risk ratio.

As used herein, "pharmaceutically acceptable salts" refer to derivatives of the disclosed compounds 5 wherein the parent compound is modified by making acid or base salts thereof. Examples of pharmaceutically acceptable salts include, but are not limited to, mineral or organic acid salts of basic residues such as amines; alkali or organic salts of acidic residues such 10 as carboxylic acids; and the like. pharmaceutically acceptable salts include the conventional non-toxic salts or the quaternary ammonium salts of the parent compound formed, for example, from non-toxic inorganic or organic acids. For example, 15 such conventional non-toxic salts include those derived from inorganic acids such as hydrochloric, hydrobromic, sulfuric, sulfamic, phosphoric, nitric and the like; and the salts prepared from organic acids such as acetic, propionic, succinic, glycolic, stearic, lactic, malic, tartaric, citric, ascorbic, pamoic, maleic, 20 hydroxymaleic, phenylacetic, glutamic, benzoic, salicylic, sulfanilic, 2-acetoxybenzoic, fumaric, toluenesulfonic, methanesulfonic, ethane disulfonic, oxalic, isethionic, and the like:

The pharmaceutically acceptable salts of the present invention can be synthesized from the parent compound which contains a basic or acidic moiety by conventional chemical methods. Generally, such salts can be prepared by reacting the free acid or base forms of these compounds with a stoichiometric amount of the appropriate base or acid in water or in an organic solvent, or in a mixture of the two; generally, nonaqueous media like ether, ethyl acetate, ethanol, isopropanol, or acetonitrile are preferred. Lists of suitable salts are found in Remington's Pharmaceutical Sciences, 17th ed., Mack Publishing Company, Easton,

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PA, 1985, p. 1418, the disclosure of which is hereby incorporated by reference.

"Prodrugs" and "prodrug derivatives" are intended to include any covalently bonded carriers which release 5 the active parent drug according to formula (I) in vivo when such prodrug is administered to a mammalian subject. Prodrugs of a compound of formula (I) are prepared by modifying functional groups present in the compound in such a way that the modifications are 10 cleaved, either in routine manipulation or in vivo, to the parent compound. Prodrugs include compounds of formula (I) wherein a hydroxy, amino, or sulfhydryl group is bonded to any group that, when the prodrug or compound of formula (I) is administered to a mammalian subject, cleaves to form a free hydroxyl, free amino, · 15 or free sulfhydryl group, respectively. Examples of prodrugs include, but are not limited to, acetate, formate and benzoate derivatives of alcohol and amine functional groups in the compounds of formula (I), and 20 the like.

"Stable compound" and "stable structure" are meant to indicate a compound that is sufficiently robust to survive isolation to a useful degree of purity from a reaction mixture, and formulation into an efficacious therapeutic agent.

[1] There is provided by this invention a compound of the formula (I):

Formula I

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or a pharmaceutically acceptable salt form or a steroisomer thereof, wherein:

- 5 R¹ is selected from: $-\text{CO}_2\text{H}, -\text{C(O)} \text{ NHOH}, -\text{C(O)} \text{ NHOR}^7, -\text{SH, } -\text{CH}_2\text{CO}_2\text{R}^7, \\ -\text{COR}^7, -\text{N(OH)} \text{COR}^7, -\text{SN}_2\text{H}_2\text{R}^7, -\text{SONHR}^7, -\text{CH}_2\text{CO}_2\text{H}, \\ -\text{PO(OH)}_2, -\text{PO(OH)} \text{ NHR}^7, -\text{CH}_2\text{SH, } -\text{C(O)} \text{ NHOR}^7, -\text{CO}_2\text{R}^7, \\ \text{and common prodrug derivatives;}$
- ${\rm R}^2$ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

15 wherein:

- U is absent or is selected from: O, NR^a , C(O), C(O)O, OC(O), C(O)NRa, NR^a C(O), OC(O)O, OC(O)NRa, NR^a C(O)O, NR^a C(O)NRa, S(O)p, S(O)pNRa, NR^a S(O)p, and NR^a SO2NRa;
- X is absent or selected from H, C1-10 alkylene, C2-10 alkenylene, C2-10 alkynylene;
- 25 Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14

 30 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O) OC(O), C(O) NR^a, NR^aC(O), OC(O), OC(O) NR^a, C(O)

 $NR^{a}C(0)O$, $NR^{a}C(0)NR^{a}$, $S(0)_{p}$, $S(0)_{p}NR^{a}$, $NR^{a}S(0)_{p}$, and $NR^{a}SO_{2}NR^{a}$;

- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ 5 alkenylene, C₂₋₁₀ alkynylene;
 - Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- 10 Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- Ra, at each occurrence, is independently selected from H, C_{1-4} alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^a taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^{b} , at each occurrence, is independently selected from C_{1-6} alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a}$, $C(O)R^{a}$, $C(O)OR^{a}$, $C(O)NR^{a}R^{a}$, $S(O)_{D}R^{a}$, CF_{3} , and $CF_{2}CF_{3}$;
- R^C, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^a', C(0)R^a, C(0)OR^a, C(0)NR^aR^a', NR^aS(0)₂R^a', S(0)₂NR^aR^a', S(0)_DR^a, CF₃, CF₂CF₃, and a 5-14

membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

5 R³ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

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U is absent or is selected from: O, NR^a , C(O), C(O)O, OC(O), C(O)NRa, NR^a C(O), OC(O)O, OC(O)NRa, NR^a C(O)O, NR^a C(O)NRa, S(O)p, S(O)pNRa, NR^a S(O)p, and NR^a SO2NRa;

15

- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- - X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

 Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- 10 Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
 - Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^a taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF₃, and CF₂CF₃;
- RC, at each occurrence, is independently selected from C1-6 alkyl, ORa, C1, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0)2Ra', S(0)2NRaRa', S(0)pRa, CF3, CF2CF3, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- 35 R⁴ is selected from: hydrogen, (C1-C5)alkyl, (C1-C5)alkyl-aryl,

 ${\rm R}^5$ and ${\rm R}^6$ are independently selected from:

U-X-Y-Z-Ua-Xa-Ya-Za

5

wherein:

U is absent or is selected from: O, NR^a, C(O), C(O)O, OC(O), C(O) NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;

X is absent or selected from H, C1-10 alkylene, C2-10 alkenylene, C2-10 alkynylene;

Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- 25 U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;
- 30 X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
 - Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

- R^a, at each occurrence, is independently selected from
 H, C₁₋₄ alkyl, phenyl or benzyl;
- 10 $R^{a'}$, at each occurrence, is independently selected from H, C_{1-4} alkyl, phenyl or benzyl;
- alternatively, R^a and R^a taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from $C_{1-6} \text{ alkyl, } OR^a, Cl, F, Br, I, =0, CN, NO_2, \\ NR^aR^a', C(O)R^a, C(O)OR^a, C(O)NR^aR^a', S(O)_2NR^aR^a', \\ S(O)_DR^a, CF_3, and CF_2CF_3;$
- R^{C} , at each occurrence, is independently selected from C_{1-6} alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a'}$, $C(O)R^{a}$, $C(O)OR^{a}$, $C(O)NR^{a}R^{a'}$, $NR^{a}S(O)_{2}R^{a'}$, $S(O)_{2}NR^{a}R^{a'}$, $S(O)_{p}R^{a}$, CF_{3} , $CF_{2}CF_{3}$, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- 7 is selected from: $\text{C}_{\text{1}}\text{-}\text{C}_{\text{10}}$ alkyl, alkylaryl, and common prodrug derivatives
- A is selected from: SO₂, SO, CHOH;

```
E is (CR^8R^9)_{m-W-}(CR^8R^9)_{n},
          wherein W can be absent or selected from:
                CH<sub>2</sub>, CO, O, S(O)<sub>m</sub> and NR<sup>10</sup>,
                m is 0-2,
5
                n is 0-2;
          with the proviso that when W is O, S or NR^{10} then
                m must not be 0;
10 R<sup>8</sup> and R<sup>9</sup> is independently selected from:
          Η,
          C1-C8 alkyl substituted with 0-5 Rb,
          C1-C8 alkenyl,
          C1-C8 alkylaryl substituted with 0-5 Rb,
          C<sub>3-13</sub> carbocyclic residue substituted with 0-5 R<sup>b</sup>,
15
          5-14 membered heterocyclic system containing from
          1-4 heteroatoms selected from the group
    consisting of N, O, and S substituted with 0-5 RD;
          amino,
          C1-C8 alkyl-NR<sup>10</sup>
20
          hydroxyl,
    {\rm R}^{8} and {\rm R}^{9} can also form a ring interrupted by {\rm NR}^{10}, O,
          S(O)m.
25
   R^{10} is selected from:
          hydrogen,
          C1-C8 alkyl
          C1-C8 alkylaryl
30
    J^1, J^2, J^3, J^4 are independently selected from:
                                  CH, or N.
35
          with no more than two N in the cycle.
```

[2] The present invention includes compounds of formula (I) wherein:

R¹ is selected from: $-\text{CO}_2\text{H}, -\text{C}(\text{O})\,\text{NHOH}, -\text{C}(\text{O})\,\text{NHOR}^7, -\text{SH}, -\text{CH}_2\text{CO}_2\text{R}^7, \\ -\text{COR}^7, -\text{N}(\text{OH})\,\text{COR}^7, -\text{SN}_2\text{H}_2\text{R}^7, -\text{SONHR}^7, -\text{CH}_2\text{CO}_2\text{H}, \\ -\text{PO}(\text{OH})_2, -\text{PO}(\text{OH})\,\text{NHR}^7, -\text{CH}_2\text{SH}, -\text{C}(\text{O})\,\text{NHOR}^7, -\text{CO}_2\text{R}^7, \\ \text{and common prodrug derivatives;}$

 $10 ext{ R}^2$ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

15

U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

- X is absent or selected from H, C1-10 alkylene, C2-10 alkenylene, C2-10 alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and $C(O)_t$
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- Ua is absent or is selected from: H, O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

xa is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀
alkenylene, C₂₋₁₀ alkynylene;

- 5 Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- za is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 RC and a 5-14

 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 RC;
- R^a , at each occurrence, is independently selected from H, C_{1-4} alkyl, phenyl or benzyl;
 - Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- 20 alternatively, R^a and R^a taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;
- , at each occurrence, is independently selected from
 C1-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂,
 NR^aR^a', C(O)R^a, C(O)OR^a, C(O)NR^aR^a', NR^aS(O)₂R^a',
 S(O)₂NR^aR^a', S(O)_pR^a, CF₃, CF₂CF₃, and a 5-14
 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S;

 R^3 is selected from the formula:

5

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

- 15 X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
 - Y is absent or selected from H, O, NRa, S(O)p, and C(O);

20

25

- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- Ua is absent or is selected from: H, O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O), NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- xa is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀
 alkenylene, C₂₋₁₀ alkynylene;
- 35 Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;

- $R^{a'}$, at each occurrence, is independently selected from H, C_{1-4} alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the

 nitrogen to which they are attached form a 5 or 6

 membered ring containing from 0-1 additional
 heteroatoms selected from the group consisting of
 N, O, and S;
- 20 Rb, at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $S(0)_DR^a$, CF_3 , and CF_2CF_3 ;
- 25 , at each occurrence, is independently selected from C1-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^a', C(O'R^a, C(O)OR^a, C(O)NR^aR^a', NR^aS(O)₂R^a', S(O)₂NR^aR^a', S(O)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
 - R⁴ is selected from:
 hydrogen,
- R^5 and R^6 are independently selected from:

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

5

U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

10

- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)_p, S(O)_pNR^a, NR^aS(O)_p, and NR^aSO₂NR^a;
 - X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic
 residue substituted with 0-5 R^C and a 5-14
 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S substituted with $0-5\ R^{C}$;

R^a, at each occurrence, is independently selected from 5 H, C₁₋₄ alkyl, phenyl or benzyl;

- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- 10 alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;

15

 R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $S(0)_DR^a$, CF_3 , and CF_2CF_3 ;

20

- R^C, at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^aR^a$, $NR^aS(O)_2R^a$, $S(O)_2NR^aR^a$, $S(O)_DR^a$, CF_3 , CF_2CF_3 , and a 5-14 membered heterocyclic
- 25 system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
 - R^7 is selected from: $C_1 C_{10}$ alkyl, alkylaryl, and common prodrug derivatives

- A is selected from: SO₂, SO, CHOH;
- E is $(CR^8R^9)_{m}-W-(CR^8R^9)_{n}$,
- 35 wherein W can be absent or selected from: CH_2 , CO, O, S(O)_m and NR^{10} ,

m is 0-2, n is 0-2;

with the proviso that when W is O, S or NR^{10} then m must not be 0;

 ${\bf R}^{\bf 8}$ and ${\bf R}^{\bf 9}$ is independently selected from:

H,

C1-C8 alkyl substituted with 0-5 Rb,

10 C1-C8 alkenyl,

C1-C8 alkylaryl substituted with 0-5 Rb,

C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b,

5-14 membered heterocyclic system containing from

1-4 heteroatoms selected from the group

15 consisting of N, O, and S substituted with 0-5 Rb;
 amino,

C1-C8 alkyl-NR¹⁰ hydroxyl,

20 \mathbb{R}^8 and \mathbb{R}^9 can also form a ring interrupted by $\mathbb{N}\mathbb{R}^{10}$, O, $\mathbb{S}(0)\,\mathbb{m}$.

R¹⁰ is selected from:

hydrogen,

25 C1-C8 alkyl

C1-C8 alkylaryl

 J^1 , J^2 , J^3 , J^4 are independently selected from: CH,or N.

- with no more than two N in the cycle.
 - [3] The present invention includes preferred compounds of formula (I) wherein:
- 35 R^1 is selected from: $-CO_2H$, -C(O)NHOH, $-C(O)NHOR^7$, -SH, $-CH_2CO_2R^7$,

and common prodrug derivatives;

 R^2 is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O) NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀
15 alkenylene, C₂₋₁₀ alkynylene;

Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

20 Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

25

U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;

30

X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

 Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and $S(O)_p$

Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- 10 Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =O, CN, NO_2 , NR^aR^a , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^aR^a$, $S(O)_DR^a$, CF_3 , and CF_2CF_3 ;
- R^C, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =O, CN, NO₂, NR^aRa', C(O)Ra, C(O)ORa, C(O)NRaRa', NRaS(O)₂Ra', S(O)₂NRaRa', S(O)_pRa, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 R^3 is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

35

5

wherein:

U is absent or is selected from: O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;

- X is absent or selected from H, C1-10 alkylene, C2-10 alkenylene, C2-10 alkynylene;
- 10 Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O),

 C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a,

 NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p,

 and NR^aSO₂NR^a;
- xa is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
 - Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- 30 Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

35

R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;

- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
 - alternatively, R^a and R^a taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)₂NRaRa', S(0)₂Ra, CF₃, and CF₂CF₃;
- RC, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0)2Ra', S(0)2NRaRa', S(0)pRa, CF3, CF2CF3, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

25

R⁴ is selected from:
hydrogen,

 ${\bf R}^{\bf 5}$ and ${\bf R}^{\bf 6}$ are independently selected from:

 $_{ extsf{U-X-Y-Z-Ua-Xa-Ya-Za}}$

wherein:

30

10

35 U is absent or is selected from: O, NR^a , C(O), C(O)O, OC(O), $C(O)NR^a$, $NR^aC(O)$, OC(O)O, $OC(O)NR^a$,

 $NR^{a}C(0)O$, $NR^{a}C(0)NR^{a}$, $S(0)_{p}$, $S(0)_{p}NR^{a}$, $NR^{a}S(0)_{p}$, and $NR^{a}SO_{2}NR^{a}$;

- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ 5 alkenylene, C₂₋₁₀ alkynylene;
 - Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- 10 Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

15

 U^a is absent or is selected from: H, O, NR^a , C(O), C(O)O, OC(O) NR^a, NR^a C(O), OC(O)O, OC(O)NR^a, NR^a C(O)O, NR^a C(O)NR^a, S(O)p, S(O)p NR^a , NR^a S(O)p, and NR^a SO2 NR^a ;

20

- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
 - Ra, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;

Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

- alternatively, R^a and R^{a'} taken together with the

 nitrogen to which they are attached form a 5 or 6
 membered ring containing from 0-1 additional
 heteroatoms selected from the group consisting of
 N, O, and S;
- 10 Rb, at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^aR^a$, $S(O)_DR^a$, CF_3 , and CF_2CF_3 ;
- 15 R^C, at each occurrence, is independently selected from
 C1-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^a',
 C(0)R^a, C(0)OR^a, C(0)NR^aR^a', NR^aS(0)₂R^a', S(0)₂NR^aR^a',
 S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic
 system containing from 1-4 heteroatoms selected from
 20 the group consisting of N, O, and S;
 - \mbox{R}^{7} is selected from: $\mbox{C}_{1}\mbox{-}\mbox{C}_{10}$ alkyl, alkylaryl, and common prodrug derivatives
- - E is $(CR^8R^9)_{m-W-}(CR^8R^9)_{n}$,

wherein W can be absent or selected from: CH_2 , CO, O, $S(O)_m$ and NR^{10} ,

m is 0-2,

n is 0-2;

with the proviso that when W is O, S or NR^{10} then m must not be 0;

 ${\rm R}^{\rm 8}$ and ${\rm R}^{\rm 9}$ is independently selected from:

Η,

C1-C8 alkyl substituted with 0-5 Rb,

C1-C8 alkenyl,

5 C1-C8 alkylaryl substituted with 0-5 Rb,

C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b,

5-14 membered heterocyclic system containing from

1-4 heteroatoms selected from the group

consisting of N, O, and S substituted with 0-5 Rb;

10 amino,

C1-C8 alkyl-NR¹⁰

hydroxyl,

 \mathbb{R}^8 and \mathbb{R}^9 can also form a ring interrupted by $\mathbb{N}\mathbb{R}^{10}$, O, S(O)m.

 R^{10} is selected from:

hydrogen,

C1-C8 alkyl

20 C1-C8 alkylaryl

 J^1 , J^2 , J^3 , J^4 are independently selected from: CH,or N.

with no more than two N in the cycle.

25

[4] There is provided by this invention preferred compounds of the formula (II):

$$R^1$$
 R^2
 R^3
 R^3
 R^4
 R^4
 R^3
 R^4
 R^5

Formula II

or a pharmaceutically acceptable salt form or a steroisomer thereof, wherein:

5 R¹ is selected from:
-CO₂H, -C(O)NHOH, -C(O)NHOR⁷, -SH, -CH₂CO₂R⁷,
and common prodrug derivatives;

 R^2 is selected from the formula:

10

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- 20 X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
 - Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

25

30

- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- Ua is absent or is selected from: H, O, NRa, C(O),
 C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa,
 NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p,
 and NRaSO2NRa;

X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

 Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and $S(O)_p$

10

15

- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the

 nitrogen to which they are attached form a 5 or 6
 membered ring containing from 0-1 additional
 heteroatoms selected from the group consisting of
 N, O, and S;
- 25 Rb, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(O)R^a, C(O)OR^a, C(O)NR^aRa', S(O)₂NR^aRa', S(O)₂Ra, CF₃, and CF₂CF₃;
- 30 R^C, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^a', C(0)R^a, C(0)OR^a, C(0)NR^aR^a', NR^aS(0)₂R^a', S(0)₂NR^aR^a', S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of

N, O, and S;

R³ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

5

wherein:

U is absent or is selected from: O, NR^a, C(O), C(O)O, OC(O), C(O) NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;

X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

15

- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic

 residue substituted with 0-5 R^b and a 5-14

 membered heterocyclic system containing from 1-4

 heteroatoms selected from the group consisting of
 N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)_p, S(O)_pNR^a, NR^aS(O)_p, and NR^aSO₂NR^a;
- 30 X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
 - Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

- R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;
- 10 Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^{b} , at each occurrence, is independently selected from C1-6 alkyl, OR^{a} , C1, F, Br, I, =0, CN, NO2, $NR^{a}R^{a}$, C(0) R^{a} , C(0) OR^{a} , C(0) $NR^{a}R^{a}$, S(0) R^{a} , C(0) R^{a} , and CF2CF3;
- R^C, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^a', C(0)R^a, C(0)OR^a, C(0)NR^aR^a', NR^aS(0)₂R^a', S(0)₂NR^aR^a', S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

R⁵ is selected from:

U-X-Y-Z-Ua-Xa-Ya-Za

35 wherein:

U is absent or is selected from: O, NR^a , C(O), C(O)O, OC(O), C(O)NRa, NR^a C(O), OC(O)O, OC(O)NRa, NR^a C(O)O, NR^a C(O)NRa, S(O)p, S(O)pNRa, NR^a S(O)p, and NR^a SO2NRa;

5

- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 Rb and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 Rb;
- - Xa is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀
 alkenylene, C₂₋₁₀ alkynylene;

- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic

 residue substituted with 0-5 R^C and a 5-14

 membered heterocyclic system containing from 1-4

 heteroatoms selected from the group consisting of
 N, O, and S substituted with 0-5 R^C;
- 35 Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

5 alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;

10

 R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , C_{1} , F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $S(0)_DR^a$, CF_3 , and CF_2CF_3 ;

15

 R^{C} , at each occurrence, is independently selected from C_{1-6} alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a}$, $C(O)R^{a}$, $C(O)OR^{a}$, $C(O)NR^{a}R^{a}$, $NR^{a}S(O)_{2}R^{a}$, $S(O)_{2}NR^{a}R^{a}$, $S(O)_{p}R^{a}$, CF_{3} , $CF_{2}CF_{3}$, and a 5-14 membered heterocyclic

20 system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 R^7 is selected from: $C_1 - C_{10}$ alkyl, alkylaryl, and common prodrug derivatives

25

E is $(CR^8R^9)_m-W-(CR^8R^9)_n$,

wherein W can be absent or selected from: CH_2 , CO, O, $S(O)_m$ and NR^{10} ,

m is 0-2,

n is 0-2;

with the proviso that when W is O, S or NR^{10} then m must not be 0;

35 R^8 and R^9 is independently selected from:

C1-C8 alkyl substituted with 0-5 Rb,

C1-C8 alkenyl,

C1-C8 alkylaryl substituted with 0-5 Rb,

C3-13 carbocyclic residue substituted with 0-5 Rb,

5-14 membered heterocyclic system containing from 5

1-4 heteroatoms selected from the group

of N, O, and S substituted with 0-5 Rb; consisting amino,

C1-C8 alky1-NR¹⁰

10 hydroxyl,

> \mathbb{R}^8 and \mathbb{R}^9 can also form a ring interrupted by $\mathbb{N}\mathbb{R}^{10}$, O, S(0)m.

15 R^{10} is selected from:

hydrogen,

C1-C8 alkyl

C1-C8 alkylaryl

20 J^1 , J^2 , J^3 , J^4 are independently selected from: CH, or N.

with no more than two N in the cycle.

- [5] Preferred compounds of the present invention 25
 - include compounds of formula (II) wherein:

R¹ is selected from:

-C (O) NHOH,

and common prodrug derivatives;

30

R² is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

35 wherein:

U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

5

- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and $O(O)_p$;
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O),
 C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a,
 NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p,
 and NR^aSO₂NR^a;
 - X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and $C(O)_t$;
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic

 residue substituted with 0-5 R^C and a 5-14

 membered heterocyclic system containing from 1-4

 heteroatoms selected from the group consisting of
 N, O, and S substituted with 0-5 R^C;
- 35 Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

5 alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;

10

Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;

15

- $\rm R^C$, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(O)Ra, C(O)ORa, C(O)NRaRa', NRaS(O)₂Ra', S(O)₂NRaRa', S(O)_pRa, CF₃, CF₂CF₃, and a 5-14
- 20 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 R^3 is selected from the formula:

25

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

- 30 U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- 35 X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

- 5 Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
 - Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

30

alternatively, R^a and R^{a'} taken together with the

nitrogen to which they are attached form a 5 or 6
membered ring containing from 0-1 additional

heteroatoms selected from the group consisting of N, O, and S;

- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;
- R^C, at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^aR^a$, $NR^aS(O)_2R^a$, $S(O)_2NR^aR^a$, $S(O)_pR^a$, CF_3 , CF_2CF_3 , and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, N, and N;

R⁵ is selected from:

U-X-Y-Z-Ua-Xa-Ya-Za

20 wherein:

- U is absent or is selected from: O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;
 - X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- 30 Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 Rb;

- U^a is absent or is selected from: H, O, NR^a, C(O),

 C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a,

 NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p,

 and NR^aSO₂NR^a;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀
 alkenylene, C₂₋₁₀ alkynylene;
 - Y^a is absent or selected from H, O, NR^a, S(O)_p, and C(O);
- 15 Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^a taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)₂NRaRa', S(0)₂Ra, CF₃, and CF₂CF₃;

RC, at each occurrence, is independently selected from C1-6 alkyl, ORa, C1, F, Br, I, =0, CN, NO2, NRaRa', $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $NR^aS(0)_2R^a$, $S(0)_2NR^aR^a$, 5 S(O)pRa, CF3, CF2CF3, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S; R^7 is selected from: C_1-C_{10} alkyl, alkylaryl, and common prodrug derivatives 10 E is $(CR^8R^9)_{m-W-}(CR^8R^9)_{n}$, wherein W can be absent or selected from: CH₂, CO, O, $S(O)_m$ and NR^{10} , 15 m is 0-2, n is 0-2; with the proviso that when W is O, S or NR^{10} then m must not be 0; 20 R^8 and R^9 is independently selected from: Η, C1-C8 alkyl substituted with 0-5 Rb, C1-C8 alkenyl, C1-C8 alkylaryl substituted with 0-5 Rb, 25 C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b, 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group of N, O, and S substituted with 0-5 Rb; consisting 30 amino, C1-C8 alkyl-NR¹⁰ hydroxyl,

 \mathbb{R}^8 and \mathbb{R}^9 can also form a ring interrupted by $\mathbb{N}\mathbb{R}^{10}$, O, S(0)m.

R¹⁰ is selected from:
 hydrogen,
 C1-C8 alkyl
 C1-C8 alkylaryl

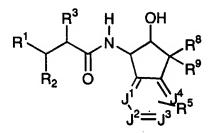
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 ${\tt J}^1,\ {\tt J}^2,\ {\tt J}^3,\ {\tt J}^4$ are independently selected from: CH,or N.

with no more than two N in the cycle.

10

[6] More preferred compounds of the present invention are compounds of the formula (III):



15

Formula III

or a pharmaceutically acceptable salt form or a steroisomer thereof, wherein:

20

R¹ is selected from:

-C(O)NHOH

and common prodrug derivatives;

25 R^2 is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

U is absent or is selected from: O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;

5

- X is absent or selected from H, C1-10 alkylene, C2-10 alkenylene, C2-10 alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and $O(O)_p$;
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- - Xa is absent or selected from H, C1-10 alkylene, C2-10
 alkenylene, C2-10 alkynylene;

- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Za is absent or selected from H, a C3-13 carbocyclic

 residue substituted with 0-5 RC and a 5-14

 membered heterocyclic system containing from 1-4

 heteroatoms selected from the group consisting of
 N, O, and S substituted with 0-5 RC;
- 35 Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

Ra', at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;

5 alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;

10

Rb, at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^aR^a$, $S(O)_DR^a$, CF_3 , and CF_2CF_3 ;

15

- R^C, at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^aR^a$, $NR^aS(O)_2R^a$, $S(O)_2NR^aR^a$, $S(O)_pR^a$, CF_3 , CF_2CF_3 , and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of
- R^3 is selected from the formula:

N, O, and S;

25

20

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

- 30 U is absent or is selected from: O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;
- 35 X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

5 Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

10

U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;

15

- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
 - Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the

 nitrogen to which they are attached form a 5 or 6

 membered ring containing from 0-1 additional

heteroatoms selected from the group consisting of N, O, and S;

- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;
- R^C, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^a', C(0)R^a, C(0)OR^a, C(0)NR^aR^a', NR^aS(0)₂R^a', S(0)₂NR^aR^a', S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

R⁵ is selected from:

 $U-X-Y-Z-U^{a}-X^{a}-Y^{a}-Z^{a}$

wherein:

- U is absent or is selected from: O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;
- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
 - Y is absent or selected from H, O, NR^a , $S(0)_p$, and C(0);
- 35 Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14

membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b ;

- 5 Ua is absent or is selected from: H, O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- 10 X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
 - Y^a is absent or selected from H, O, NR^a, S(O)_p, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
 - Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- 25 $R^{a'}$, at each occurrence, is independently selected from H, C_{1-4} alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, C1, F, Br, I, =0, CN, NO2,

NRaRa', C(0) Ra, C(0) ORa, C(0) NRaRa', S(0) $_2$ NRaRa', S(0) $_2$ RRaRa', S(0) $_2$ RRaRa', S(0) $_2$ RRaRa',

R^C, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, NR^aS(0)₂R^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

10

 ${\rm R}^{\rm 8}$ and ${\rm R}^{\rm 9}$ is independently selected from:

Η,

C1-C8 alkyl substituted with 0-5 Rb,

C1-C8 alkenyl,

15 C1-C8 alkylaryl substituted with 0-5 Rb,

 C_{3-13} carbocyclic residue substituted with 0-5 R^b ,

5-14 membered heterocyclic system containing from

1-4 heteroatoms selected from the group

consisting of N, O, and S substituted with 0-5 Rb;

amino, C1-C8 alkyl-NR¹⁰

hydroxyl,

 ${\rm R}^{8}$ and ${\rm R}^{9}$ can also form a ring interrupted by ${\rm NR}^{10},$ O, ${\rm S}\left({\rm O}\right){\rm m}.$

25

20

 R^{10} is selected from:

hydrogen,

C1-C8 alkyl

C1-C8 alkylaryl

30

 J^1 , J^2 , J^3 , J^4 are independently selected from:

CH, or N.

with no more than two N in the cycle.

[7] The more preferred compounds provided by this invention are compounds of the formula (IV):

Formula IV

or a pharmaceutically acceptable salt form or a steroisomer therof, wherein:

 ${\rm R}^2$ is selected from the formula:

$$U-X-Y-Z-U^a-X^a-Y^a-Z^a$$

15 wherein:

20

5

U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

25 Y is absent or selected from H, O, NRa, S(O)p, and C(O);

Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

- U^a is absent or is selected from: H, O, NR^a, C(O),

 C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a,

 NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p,

 and NR^aSO₂NR^a;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
 - Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- 15 Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, C1, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;

RC, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0)2Ra', S(0)2NRaRa', S(0)pRa, CF3, CF2CF3, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

10 R³ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

15

U is absent or is selected from: O, NR^a , C(O), C(O)O, OC(O), C(O)NRa, NR^a C(O), OC(O)O, OC(O)NRa, NR^a C(O)O, NR^a C(O)NRa, S(O)p, S(O)pNRa, NR^a S(O)p, and NR^a SO2NRa;

- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and $C(O)_r$
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

- 5 Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic
 residue substituted with 0-5 R^C and a 5-14

 10 membered heterocyclic system containing from 1-4
 heteroatoms selected from the group consisting of
 N, O, and S substituted with 0-5 R^C;
- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
 - Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- 20 alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N. O. and S:
- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)Ra, CF3, and CF2CF3;

30

35

R^C, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, NR^aS(0)₂R^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S;

5 R⁵ is selected from:

 $U-X-Y-Z-U^a-X^a-Y^a-Z^a$

wherein:

10

U is absent or is selected from: O, NR^a , C(O), C(O)O, OC(O), C(O)NRa, NR^a C(O), OC(O)O, OC(O)NRa, NR^a C(O)O, NR^a C(O)NRa, S(O)p, S(O)pNRa, NR^a S(O)p, and NR^a SO2NRa;

15

- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- - X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

 Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

- Za is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 RC and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 RC;
- 10 R^a , at each occurrence, is independently selected from H, C_{1-4} alkyl, phenyl or benzyl;
 - Ra', at each occurrence, is independently selected from H, C_{1-4} alkyl, phenyl or benzyl;
- alternatively, Ra and Ra' taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^{b} , at each occurrence, is independently selected from C_{1-6} alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a}$, $C(0)R^{a}$, $C(0)OR^{a}$, $C(0)NR^{a}R^{a}$, $S(0)_{2}NR^{a}R^{a}$, $S(0)_{p}R^{a}$, CF_{3} , and $CF_{2}CF_{3}$;
- RC, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0)2Ra', S(0)2NRaRa', S(0)pRa, CF3, CF2CF3, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

```
C1-C8 alkenyl,
         C1-C8 alkylaryl substituted with 0-5 Rb,
         C3-13 carbocyclic residue substituted with 0-5 Rb,
         5-14 membered heterocyclic system containing from
5
         1-4 heteroatoms selected from the group
    consisting of N, O, and S substituted with 0-5 Rb;
         amino, C1-C8 alkyl-NR<sup>10</sup>
         hydroxyl,
    R^8 and R^9 can also form a ring interrupted by NR^{10}, O,
10
         S(0)m.
    R^{10} is selected from:
         hydrogen,
         C1-C8 alkyl
15
         C1-C8 alkylaryl
         Most preferred compounds of the present invention
    include compounds selected from the group consisting
20
    of:
    N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-
    isobutyl-butanediamide;
    N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-
25
    isobutyl-3(S)-(5-hydroxycarbonyl)-pentanamide;
    N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-
    isobuty1-3(S)-methyl-butanediamide;
30
    N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-
    isobutyl-3(S)-propyl-butanediamide;
    N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-hexyl-
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3(S)-propyl-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-hydroxy-phenyl) methyl] butanediamide;
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- 5 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-methoxy-phenyl)methyl]butanediamide;
 - N1-[1(S)-indanyl]-N4-hydroxy-2(R)-[4-(hydroxy-phenyl)methyl]butanediamide;

10

- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-phenyl-propyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-15 (benzyloxy)-phenyl]methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-. (benzyloxy)-phenyl]methyl]butanediamide;
- 20 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(fluoro-phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3,4-(methylenedioxy-phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-30 (methoxy-phenyl)methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-trifluoromethyl-phenyl)phenyl]methyl]butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-tert-butylaminosulfonyl-phenyl)phenyl]methyl]-butanediamide;
```

- 5 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-methoxy-phenyl)phenyl]methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(phenyl)phenyl]methyl]butanediamide;

N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[(3-hydroxy-4-methoxy-phenyl)methyl]butanediamide;

N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-(3-thiophene)isoxazoline]methyl]butanediamide;

N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-chloro-phenyl)phenyl]methyl]butanediamide;

20 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(2-benzofuran)phenyl]methyl]butanediamide;

N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-methyl-phenyl)phenyl]methyl]butanediamide;

N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3,4-(methylenedioxy-phenyl)phenyl]methyl]butanediamide;

N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-30 tetrazole-phenyl)phenyl]methyl]butanediamide;

N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-phenyl)phenyl]methyl]butanediamide;

35 N1-[2(R)-hydroxy-1(S)-indany1]-N4-hydroxy-2(R)-[[3-methyl-phenyl)phenyl]methyl]butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
                             (amino-phenyl) methyl] butanediamide;
                           N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
                              (benzyloxy-carbonyl)amino]phenyl)methyl]butanediamide;
                            N1 - [2(R) - hydroxy - 1(S) - indanyl] - N4 - hydroxy - 2(R) - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [[4 - (2 - 1)]] - [
                            hydroxymethlene) phenyl) phenyl] methyl] butanediamide;
10
                            N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-indanyl]]
                              (3,4,5-trimethoxy-phenyl)phenyl]methyl]butanediamide;
                            N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-indanyl]]
                            (2,4-di-methoxy-phenyl) phenyl] methyl] butanediamide;
15
                            N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
                              (3,5-di-chloro-phenyl)phenyl]methyl]butanediamide;
                            N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-ky)-ky]]
20
                             trifluoromethyl-phenyl)phenyl]methyl]butanediamide;
                             N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-[4-(3-indanyl)]-[4-(3-indany
                              isopropyl-phenyl)phenyl]methyl]butanediamide;
25
                             N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
                               (2,4-dichloro-phenyl)phenyl]methyl]butanediamide;
                             N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-[4-(3-indanyl)]-[4-(3-inda
 30
                             chloro-4-fluoro-phenyl) phenyl] methyl] butanediamide;
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N1 - [2(R) - hydroxy - 1(S) - indanyl] - N4 - hydroxy - 2(R) - [4 - (p - indanyl)] - N4 - hydroxy - 2(R) - [

toluenesulfonyl-amino) phenyl] methyl] butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-phenylmethyl-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
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- 5 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,4-methylenedioxyphenyl)phenyl]methyl]-3(S)-(tertbutylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-10 methoxyphenyl)phenyl]methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-fluorophenyl)phenyl]methyl]butanediamide;
- 15 N1-[2(R)-hydroxy-1(S)-indany1]-N4-hydroxy-2(R)-[3 (fluoro-phenyl)methyl]-3(S)-(tert-butylxoy-carbonylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-20 (hydroxy-phenyl)methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;

- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-nitrophenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-(methylsulfonyl-amino)-phenyl)phenyl]methyl]-butanediamide;
- 30 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3-trimethylsilyl-propyl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-35 (hydroxy-phenyl)methyl]-3(S)-(2,2-dimethylpropionamido)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(ethyloxy-carbonyl-amino)-
   butanediamide:
5
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(iso-butyloxy-carbonyl-
    amino)-butanediamide;
   N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-indanyl]
    (hydroxy-phenyl)methyl]-3(S)-(propionamido)-
    butanediamide;
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(1-methyl-cyclopropane
15
    carboxamido-1-yl)-butanediamide;
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(2,2-dimethylpropyl-
    amino)-butanediamide;
20
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(methylsulfonyl-amino)-
    butanediamide;
25
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl) methyl] -3(S)-amino-butanediamide;
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
    (methylsulfonylamino)-phenyl)methyl]-butanediamide;
30
    N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-
    isobutyl-butanediamide;
    N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-
    isobuty1-3(S)-(5-hydroxycarbony1)-pentanamide;
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N1-(2(R)-hydroxy-1(S)-indany1)-N4-hydroxy-2(R)-
             isobuty1-3(S)-methyl-butanediamide;
            N1-(2(R)-hydroxy-1(S)-indany1)-N4-hydroxy-2(R)-
  5
             isobutyl-3(S)-propyl-butanediamide;
             N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-hexyl-
             3(S)-propyl-butanediamide;
10
             N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
             hydroxy-phenyl)methyl]butanediamide;
             N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
             methoxy-phenyl)methyl]butanediamide;
15
             N1-[1(S)-indanyl]-N4-hydroxy-2(R)-[4-(hydroxy-
             phenyl)methyl]butanediamide;
             N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
20
             phenyl-propyl]butanediamide;
             N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-indanyl]]
               (benzyloxy)-phenyl]methyl]butanediamide;
 25
              N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-indanyl]]
               (benzyloxy)-phenyl]methyl]butanediamide;
              N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
               (hydroxy-phenyl)methyl]butanediamide;
 30
              N1 - [2(R) - hydroxy - 1(S) - indany 1] - N4 - hydroxy - 2(R) - [4 - indany 1] - N4 - hydroxy 
               (fluoro-phenyl)methyl]butanediamide;
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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3,4-(methylenedioxy-phenyl)methyl]butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-5 (methoxy-phenyl)methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-trifluoromethyl-phenyl)phenyl]methyl]butanediamide;
- 10 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2tert-butylaminosulfonylphenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-15 methoxy-phenyl)phenyl]methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(phenyl)phenyl]methyl]butanediamide;
- 20 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[(3-hydroxy-4-methoxy-phenyl)methyl]butanediamide;

- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-(3-thiophene)isoxazoline]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-chloro-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-30 benzofuran)phenyl]methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-methyl-phenyl)phenyl]methyl]butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3,4-indanyl]]
                         (methylenedioxy-phenyl)phenyl]methyl]butanediamide;
                       N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-N4-hydroxy-2(R)-[[4-(2-indanyl)]-[4-(2-indanyl)]-[4-(2-inda
    5 tetrazole-phenyl)phenyl]methyl]butanediamide;
                        N1 - [2(R) - hydroxy - 1(S) - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - N4 - hydroxy - 2(R) - [[3 - indany 1] - [3 - indany 1] - [[3 - ind
                        phenyl)phenyl]methyl]butanediamide;
                       N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-indanyl]]
10
                        methyl-phenyl)phenyl]methyl]butanediamide;
                         N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
                           (amino-phenyl) methyl] butanediamide;
15
                         N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
                           (benzyloxy-carbonyl)amino]phenyl)methyl]butanediamide;
                         N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(2-indanyl)]
                         hydroxymeth1ene)phenyl)phenyl]methyl]butanediamide;
 20
                         N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-indanyl]]
                           (3,4,5-trimethoxy-phenyl)phenyl]methyl]butanediamide;
                         N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-indanyl]]
 25
                           (2,4-di-methoxy-phenyl)phenyl]methyl]butanediamide;
                           N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-
                           (3,5-di-chloro-phenyl)phenyl]methyl]butanediamide;
 30
                          N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(2-indanyl)]
                           trifluoromethyl-phenyl)phenyl]methyl]butanediamide;
                           N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-N4-hydroxy-2(R)-[[4-(3-indanyl)]-[4-(3-indanyl)]-[4-(3-indanyl
                           isopropyl-phenyl)phenyl]methyl]butanediamide;
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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2,4-dichloro-phenyl)phenyl]methyl]butanediamide;
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- 5 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-chloro-4-fluoro-phenyl)phenyl]methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(p-toluenesulfonyl-amino)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)phenylmethyl-3(S)-(tert-butylxoy-carbonyl-amino)butanediamide;
- 15 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,4-methylenedioxyphenyl)phenyl]methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-20 methoxyphenyl)phenyl]methyl]butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-fluorophenyl)phenyl]methyl]butanediamide;
- 25 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(fluoro-phenyl)methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-30 (hydroxy-phenyl)methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-nitrophenyl)phenyl]methyl]butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-(methylsulfonyl-amino)-phenyl)phenyl]methyl]butanediamide;
```

- 5 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3-trimethylsilyl-propyl)butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-10 (hydroxy-phenyl)methyl]-3(S)-(2,2-dimethylpropionamido)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(ethyloxy-carbonyl-amino)-
- 15 butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(iso-butyloxy-carbonyl-amino)-butanediamide;
- 20
 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(propionamido)butanediamide;
- 25 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-methyl-cyclopropane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-30 (hydroxy-phenyl)methyl]-3(S)-(2,2-dimethylpropyl-amino)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(methylsulfonyl-amino)-
- 35 butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-amino-butanediamide;
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- 5 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclobutane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-10 (hydroxy-phenyl)methyl]-3(S)-(2-hydroxymethylisobutanamide)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-hydroxyl-cyclopropane
- 15 carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-phenyl-cyclopropane carboxamido-1-yl)-butanediamide;
- 20
 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3(hydroxy-phenyl)methyl]-3(S)-(bezene carboxamido-1-yl)butanediamide;
- 25 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-cyano-cyclopropane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-30 (hydroxy-phenyl)methyl]-3(S)-(1-phenyl-cyclopentane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-methyl-cyclohexane 35 carboxamido-1-yl)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
(hydroxy-phenyl)methyl]-3(S)-(2-indole carboxamido)-
butanediamide;
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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-furan carboxamido)-butanediamide;

5

- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3,4,5-trimethoxy benzene carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methyl-3-amino-benzene carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methyl-6-amino-benzene carboxamido-1-yl)-butanediamide;
- 25
 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3(hydroxy-phenyl)methyl]-3(S)-(3-pyridine carboxamido-1v1)-butanediamide;
- 30 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-(2,4-dichloro-phenyl)-cyclopropane carboxamido-1-yl)-butanediamide;

```
N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-(4-chloro-phenyl)-cyclopropane carboxamido-1-yl)-butanediamide;
```

- 5 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3-methylsulfonyl)-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methylsulfonyl-benzene carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3-cyano-benzene
- 15 carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(6-quinoline carboxamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-ethyl,3-methyl-pyrazole 5-carboxamido)-butanediamide;
- 25 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3-(4-morpholino-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-30 (hydroxy-phenyl)methyl]-3(S)-(2-chloro-4methylsulfonyl-benzene carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(4-(imidazol-1-yl)benzene
- 35 carboxamido-1-yl)-butanediamide;

```
N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl) methyl]-3(S)-(2-thiophene carboxamido-
    1-v1)-butanediamide;
5
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl) methyl] -3 (S) - (1-tert-butyl, 3-methyl-
    pyrazole 5- carboxamido)-butanediamide;
   N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
10
    (hydroxy-phenyl)methyl]-3(S)-(4-aminomethyl benzene
    carboxamido-1-yl)-butanediamide;
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-indanyl]
   (hydroxy-phenyl) methyl]-3(S)-(2-hydroxyl-
15
    isobutanamido) - butanediamide;
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(cyclopropane carboxamido-
    1-yl)-butanediamide;
20
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(cyclopentane carboxamido-
    1-y1)-butanediamide;
25
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(2-cyclopentyl acetamido)-
    butanediamide:
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
30
    (hydroxy-phenyl)methyl]-3(S)-( cyclohexane carboxamido-
    1-yl)-butanediamide;
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```
N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
(hydroxy-phenyl)methyl]-3(S)-(4-(4-N-Boc-piperazinyl-1-
yl)benzene carboxamido-1-yl)-butanediamide;
```

- 5 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(4-(piperazinyl-1-yl)benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-Fluoro-6-chloro-benzene carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-amino-cyclohexane
- 15 carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methylthio-acetamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methoxy-acetamido)butanediamide;
- 25 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-allyl-cyclopentane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-30 (hydroxy-phenyl)methyl]-3(S)-(1-n-propyl-cyclopentane carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-allyl-cyclopropane
- 35 carboxamido-1-yl)-butanediamide;

```
N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(8-quinoline-
    sulfonamido) - butanediamide;
5
   N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl)methyl]-3(S)-(4-nitro-benzene
    sulfonamido) - butanediamide;
   N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
10
    (hydroxy-phenyl)methyl]-3(S)-(1,4-di-methyl-2-chloro-
    pyrazole-3- sulfonamido)-butanediamide;
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
   (hydroxy-phenyl)methyl]-3(S)-(1,5-dimethyl-isooxazole
15
    3- sulfonamido)-butanediamide;
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-indanyl]
   (hydroxy-phenyl)methyl]-3(S)-(1-methyl-imidazole 3-
   sulfonamido)-butanediamide;
20
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
    (hydroxy-phenyl) methyl]-3(S)-(benzene sulfonamido)-
    butanediamide;
25
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-indanyl]
    (hydroxy-phenyl)methyl]-3(S)-(1,4-dimethyl pyrazole 3-
    sulfonamido)-butanediamide;
    N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-
30
    (hydroxy-phenyl)methyl]-3(S)-(2-methylsulfonyl benzene
    sulfonamido-1-yl)-butanediamide;
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```
N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclohexylamino)-butanediamide;
```

- 5 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(iso-propylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4(2-10 trifluoromethylphenyl)-phenylmethyl]-3(S)-(2,2dimethylpropyl-amino)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclopentylamino)-
- 15 butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclopropylmethyl)-butanediamide;
- 20
 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(benzylamino)butanediamide;
- 25 N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-furanmethylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-30 (hydroxy-4-methylphenyl)methyl]-3(S)-(3-cyanophenylmethylamino)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2,2-dimethylpropyl-
- 35 amino)-butanediamide;

N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-pentylamino)-butanediamide;

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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(bis-cyclopropylmethyamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methyl-propylamino)butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-methyl-cyclopropane 20 carboxamido-1-yl)-butanediamide;

The present invention also provides a pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of formula (I) as described herein.

The present invention also provides for treating an inflammatory disease in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of formula (I) as described herein.

The present invention also provides a method for treating a condition or disease mediated by MMPs and/or TNF and/or aggrecanase in a mammal comprising

administering to the mammal in need of such treatment a therapeutically effective amount of a compound of formula (I) as described herein.

The present invention also provides a method for treating a condition or disease wherein the disease or condition is referred to as rheumatoid arthritis, osteoarthritis, periodontitis, gingivitis, corneal ulceration, solid tumor growth and tumor invasion by secondary metastases, neovascular glaucoma, multiple sclerosis, or psoriasis in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of formula (I) as described herein.

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The present invention also provides a method for treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation, cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of formula (I) as described herein.

In the following description a (-) symbolizes the point of attachment.

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SYNTHESIS

The novel compounds of the present invention may be prepared in a number of ways well known to one skilled in the art of organic synthesis. The compounds of the present invention can be synthesized using the methods described below, together with synthetic methods known in the art of synthetic organic

chemistry, or variations thereon as appreciated by those skilled in the art. Preferred methods include, but are not limited to, those described below. references cited herein are hereby incorporated in 5 their entirety herein by reference.

The novel compounds of this invention may be prepared using the reactions and techniques in this section. The reactions are performed in solvents appropriate to the reagents and materials employed and 10 suitable for the transformation being effected. Also, in the description of the synthetic methods described below, it is to be understood that all proposed reaction conditions, including choice of solvents, reaction temperature, duration of the experiment and 15 workup procedures, are chosen to be the conditions standard for that reaction, which should be readily recognized by one skilled in the art. It is understood by one skilled in the art of organic synthesis that the functionality present on various portions of the molecule must be compatible with the reagents and reactions proposed. Such restrictions to the substituents which are compatible with the reaction conditions will be readily apparent to one skilled in the art and alternate methods must then be used.

A series of compounds of formula 5 are prepared by the methods outlined in scheme 1. Coupling of carboxylic acid 1 with cis-(1S, 2R-(-)-1-amino-2-indanol provided amide 2 The hydroxyl group of 2 was protected as the acetonide 3, followed by alkylation with tertbutyl 2-bromo-acetate to afford the desired diastereomer 4. Removal of the tert-butyl group of 4 with TFA in methylene chloride, followed by coupling with O-benzyl hydroxy amine, and hydrogenation afforded the target molecule 5.

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Scheme 1

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Compounds of formula $\bf 5$ can also be prepared by the methods outlined in scheme 2. The 2-substituted succinic acid $\bf 10$ can be prepared using standard Evans chemistry. An acid $\bf 6$ (X = Cl) is converted to its oxazolidinone derivative $\bf 8$ using the standard chemistry. Asymmetric alkylation, followed by hydrolysis using $H_2O_2/LiOH$ afforded the desired acid $\bf 10$. The mono-protected succinic acid was coupled to (1S, 2R)-(-) cis -1-amino-2-indanol using standard BOP, or other peptide coupling reagents such as DCC, EDAC, TBTU. The intermediate $\bf 11$ can then be readily converted into the target compounds $\bf 5$ using the similar

5 procedures to that used for the synthesis of target 5 as described in scheme 1.

Scheme 2

10

Compounds of formula 12 are prepared by the methods outlined in scheme 3. Dianion reaction of the intermidate 10 with an organic halides or triflates produces the 2,3-disubstituted succinate 13. The acid 13 was coupled with cis -(1S, 2R)-(-)-1-amino-2-indanol. Following similar procedures to that used for the synthesis of target 5 as described in scheme 1, compounds of formula 12 can be readily prepared.

5

Scheme 3

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Compounds of formula 19 are prepared as shown in scheme 4. The intermediate 15 prepared using the method described in scheme 3, was hydrogenated to produce 16. Compound 16 was then converted to the triflate 17. The Pd catalyzed Suzuki or stille cross coupling of triflate 17 with either a boronic acid or organostanane afford the coupling product 18. Using the standard chemistry as described in scheme 3, 18 can be easily converted to the compounds of formula 19.

20

5 Scheme 4

10 Compounds of formula 20 are prepared as shown in scheme 5. Compound 21 prepared as described in scheme 2 can be hydrogenated to give the free amine 22. The free amino group can then be protected as sulfonamides, carbamates, and amides 23. Following similar chemistry to that described in scheme 1, compound 23 can be readily converted to the target of formula 20.

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Scheme 5

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Compounds of formula 24 are prepared as shown in scheme 6. Starting from 22 prepared in scheme 5, the free amino group can be further functionalized to afford compound 28 by either palladium catalyzed aryl amination (Wolfe, J. P.; Rennels, R. A.; Buchwald, S. L. Tetrahedron, 1996, 52, 7525-7546, Hartwig, J. F. Synlett, 1996, 329), or displacement with a substituted aryl fluoride. As described in the previous scheme 5, 28 can be easily converted to the final compound 24.

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Scheme 6

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Compounds of formula 29 are prepared as shown in 10 schemes 7-9.

The synthesis of substituted cis-1-amino-2-indanol (36) was followed by the route developed by Ghosh et al (Ghosh, A. K.; Kincaid, J. F.; Haske, M. G. Synthesis, 1997, 541-544) The substituted indene (30) is converted to the epoxide 31 with MCPBA, or to the optically pure epoxide of 31 with Jacobsen's highly enantioselective epoxidation catalysts (Jacobsen, E. N.; Zhang, W.; Muci, A. R.; Ecker, J. R.; Deng, L. J. Am. Chem. Soc. 1991, 113, 7063-7064.). The epoxide 31 20 is converted to the alcohol 32 by treating it with NaN3. The racemic alcohol of 32 is resolved by Lipase

PS as described by Ghosh et al (Ghosh, A. K.; Kincaid, J. F.; Haske, M. G. Synthesis, 1997, 541-544). The azide of 33 was hydrogenated in the presence of O(CO₂Et)₂ to give 34. The compound 34 was then converted to final substituted cis-1-amino-2-indanol 36 first by mixing with SOCl₂, followed by hydrolysis.

Scheme 7

Alternatively, the substituted cis-1-amino-2-indanol 36 is directly prepared from substituted indene (30) following a method recently developed by Sharpless, K. B. et al as shown in scheme 8 (Li, G.; Angert, H. H.; Sharpless, K. B. Angew. Chem. Int. Ed. Engl. 1996, 35, 2813). The cbz group of 38 was removed by hydrogenation to give the free amine 36.

25

15

5 Scheme 8

10 Following a similar sequence, the compound **36** can then be readily converted to the final compound **29** as shown in scheme 9.

Scheme 9

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$$R_1$$
 OH R_2 OH R_3 OH R_3 OH R_4 OH R

Compounds of formula 39 can be synthesized as shown in scheme 10. Following the method developed by Sudo and Saigo (Sudo, A.; Saigo, K. Tetrahedron Asymetry, 1996, 7, 2939-2956), the racemic cis-2-amino-1-indanol can be readily synthesized from substituted indanone 40 as outlined in scheme 9. The indanone can be readily converted into oxime 41 with butyl nitrile under acidic conditions. Reduction of 41 with NaBH, in methanol could provide the hydroxy oxime, which was

then treated with acetic anhydride and pyridine to give diacetate 42. Borane reduction of 42 then give the racemic 43, which can then be directly used or resolved by co-crystalization with tartaric acid or others to provide the desired enantiomerically pure amine 43.

10 Using similar chemistry to that used for the synthesis of target 5 as described in scheme 1, compound 44 can be readily converted to the target 39.

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Scheme 10

$$R_1$$
 R_2
 R_3
 R_4
 R_5
 R_6
 R_6
 R_6
 R_6
 R_6
 R_7
 R_8
 R_9
 R_9

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Compounds of formula 45 are synthesized as shown in scheme 11. The carboxylic group of commercially available aspartic acid was protected as methyl ester 47. Compound 47 was then treated with LiHMDS in THF at -78 °C to form the enolate, which was reacted with benzyl bromide to afford 48. The benzyl group of 48 was removed by hydrogenation. The resulting acid was then coupled with cis-2-amino indanol to give 49. Hydrolysis of compound 49, followed by coupling with hydroxy amine to furnish the desired target 45.

Scheme 11

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Examples

Abbreviations used in the Examples are defined as follows: "1 x" for once, "2 x" for twice, "3 x" for thrice, "°C" for degrees Celsius, "eq" for equivalent or equivalents, "g" for gram or grams, "mg" for milligram or milligrams, "mL" for milliliter or milliliters, "1H" for proton, "h" for hour or hours, "M" for molar, "min" for minute or minutes, "MHz" for nuclear magnetic resonance spectroscopy, "rt" for room temperature, "tlc" for thin layer chromatography, "v/v" for volume to volume ratio. "R" and "S" are stereochemical designations familiar to those skilled in the art.

Example 1: N1-(2(R)-hvdroxy-1(S)-indanyl)-N4-hvdroxy-2(R)-isobutyl-butanediamide:

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(a) N1-(2R-hydroxy-1S-indanyl)-2R-isobutyl-3-(tert-butoxycarbonyl)propanamide:

To a stirred, cooled (0° C) solution of 500 mg

(2.17 mmol) 2R-isobutyl 3-(tert-butoxycarbonyl)propinoic acid and 323.9 mg (2.17 mmol)

(1S, 2R)-(-) cis -1-amino-2-indanol in 4.0 mL of anhydrous DMF was added 731.4 mg of TBTU, followed by addition of 1.19 mL of diisopropylethyl amine. The reaction was allowed to warmed to room temperature. After 1 h, the reaction mixture was diluted with 15 mL 10% citric acid and 50 mL ethyl acetate, the aqueous solution was further extracted with ethyl acetate (2 X 25 mL). The combined organic solution was washed with water, sat. NaHCO3, and brine, dried over MgSO4. The

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solution was filtered and concentrated under reduced pressure to afford 0.685 g (87% yield) as a white solid. ESI-MS (M+H)*: calcd 362, found 362.

5 (b) N-(2R-hydroxy-1S-indany1)-2R-isobuty1-3-(hydroxycarbonyl)propanamide:

To a solution of 0.635 g of N-(2R-hydroxy-1S-indanyl)-2R-isobutyl-3-(tert-butoxycarbonyl)

10 propanamide in 4.5 mL methylene chloride and 0.5 mL water was dropwise added 5.0 mL of TFA. The reaction was stirred at room temperature for 50 min. The solution mixture was concentrated, and dried by coevaporation with toluene (3 X 15 mL). The resulting

15 material was directly used in the next step. ESI-MS (M+H)*: calcd 306, found 306.

(c) N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-isobutyl-butanediamide:

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To a cooled (0° C) solution of 501.0 mg of N-(2R-hydroxy-1S-indanyl)-2R-isobutyl-3-(hydroxycarbonyl) propanamide in 6.4 mL DMF was added 786.5 mg of O-benzyl hydroxyamine-HCl, and 684.6 mg of TBTU, followed by addition of 1.71 mL of ethyldiisopropyl amine. The reaction was stirred at 0° C for 15 min. and warmed to room temperature. After 4 h, the reaction mixture was poured into ethyl acetate / 5% citric acid, the aqueous solution was extracted with ethyl acetate (3 X 25 mL). The combined organic solution was washed with 5% citric acid, water, sat. NaHCO₃, brine, and dried over MgSO₄. The solution was filtered and concentrated to afford 647 mg of desired product as a white solid.

To 323.5 mg of the above in 20 mL methanol was added 500 mg of 5% Pd/BaSO₄. The mixture was shaken under 50 psi H_2 for 16 hour. The reaction mixture was filtered and concentrated and purified by reverse HPLC 5 to afford 110 mg of the desired hydroxamic acid as a white solid. ESI-MS (M+H) : calcd 321, found 321.

Example 2: N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-isobutyl-3(S)-(3-propionic acid)-10 butanediamide:

Following a procedure analogous to that used in example 1, 2R-isobutyl 3S-(tert-butoxycarbonyl) 5benzoxycarbonyl pentanoic acid was coupled with (1S, 2R)-(-) cis -1-amino-2-indanol using TBTU as the 15 coupling reagent. Removal of tert-butyl protecting group was achieved by treating with TFA as described in example 1, followed by coupling with O-benzyl hydroxyamine-HCl mediated by TBTU. The resulting material was hydrogenated to afford the desired 20 product. ESI-MS (M+H) : calcd 393, found 393.

Example 3: N1-(2(R)-hydroxy-1(S)-indanyl)- N4-hydroxy-2(R)-isobutyl-3(S)-methyl-butanediamide:

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Following a procedure analogous to that used in example 1, 2R-hexyl 3S-(tert-butoxycarbonyl) butanoic acid was coupled with (1S, 2R)-(-) cis -1-amino-2indanol using TBTU as the coupling reagent. Removal of 30 tert-butyl protecting group was achieved by treating with TFA as described in example 1, followed by coupling with O-benzyl hydroxyamine-HCl mediated by TBTU or BOP. The resulting material was hydrogenated to afford the desired product as a white solid. ESI-MS (M+H)+: calcd 335, found 335.

Example 4: N1-(2(R)-hydroxy-1(S)-indanyl)- N4-hydroxy-2(R)-isobutyl-3(S)-propyl-butanediamide:

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Following a procedure analogous to that used in example 1, 2R-isobutyl 3S-(tert-butoxycarbonyl) hexanoic acid was coupled with (1S, 2R)-(-) cis -1amino-2-indanol using TBTU as the coupling reagent. 10 Removal of tert-butyl protecting group was achieved by treating with TFA as described in example 1, followed by coupling with O-benzyl hydroxyamine-HCl mediated by TBTU or BOP. The resulting material was hydrogenated to afford the desired product as a white solid. ESI-MS $(M+H)^{+}$: calcd 363, found 363.

Example 5: N1-(2(R)-hydroxy-1(S)-indanyl)-N4-hydroxy-2(R)-hexyl-3(S)-propyl-butanediamide:

20 Following a procedure analogous to that used in example 1, 2R-hexyl 3S-(tert-butoxycarbonyl) hexanoic acid was coupled with (1S, 2R)-(-) cis -1-amino-2indanol using TBTU as the coupling reagent. Removal of tert-butyl protecting group was achieved by treating with TFA as described in example 1, followed by coupling with O-benzyl hydroxyamine-HCl mediated by TBTU or BOP. The resulting material was hydrogenated to afford the desired product as a white solid. ESI-MS (M+H)+: calcd 391, found 391.

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Example 6: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-hydroxy-phenyl)methyl]-butanediamide:

(a) Preparation of N-(2R-hydroxy-1S-indanyl)-3-(4-35 benzyloxy-phenyl) - propanamide:

To a stirred, cooled (0° C) solution of 10g (39.1 mmol) 3-(4-benzyloxy-phenyl)-propinoic acid and 7 g (46.92 mmol) (1S, 2R)-(-) cis -1-amino-2-indanol in 200 mL of anhydrous DMF was added 17.3g BOP as a solid, followed by addition of 20 mL of diethylisopropyl amine. The reaction was allowed to warmed to room temperature. After 5 h, the reaction mixture was diluted with 100 mL 10% citric acid and 100 mL ethyl acetate, the aqueous solution was further extracted with ethyl acetate (2 X 50 mL). The combined organic 10 solution was washed with water, sat. NaHCO3, and brine, dried over MgSO4. The solution was filtered and concentrated under reduced pressure to afford 15.1 g desired product as a white solid. ESI-MS (M+H) : calcd 388, found 388. 15

(b) N-(1S, 2R-N,O-dimethyl acetonide-indanyl)-3-(4-benzyloxy-phenyl)-propanamide:

20 To a stirred, cooled (0° C) solution of 15.1 g N-(2R-hydroxy-1S-indanyl)-3-(4-benzyloxy-phenyl)propanamide and 1.14 g of PPTS in 300 mL of methylene chloride was slowly added 30 ml of 2-methoxy propene. The solution was slowly warmed to room temperature and stirred overnight. The reaction was quenched by 25 addition of 50 mL of sat. NaHCO3, and extracted with ethyl acetate (3 X 50 mL). The combined solution was washed with sat NaHCO3, water, brine, and dried over MgSO4. The solution was filtered and concentrated. The 30 crude material was purified by flash column (Ethyl acetate/ Hexane: 40:60) to give 15.3 g desired product as a white solid. ESI-MS (M+H) : calcd 428, found 428.

(c) N-(1S, 2R-N, 0-dimethyl acetonide-indanyl)-2R-(4-Benzyloxy-phenylmethyl)-3-(tert-butoxycarbonyl-propanamide:

5 To a stirred and cooled (-78° C) solution of 3.0 g (7.0 mmol) of N-(2R-hydroxy-1S-indany1)-3-(4-benzyloxyphenyl) - propanamide in 20 mL THF was dropwise added a freshly prepared, cooled (-78° C) LDA (7.0 mmol) in THF. After 1.0 hour, a solution of 1.14 mL (7.7 mmol) tert-butyl 2-bromoacetate in 3.0 ml THF was added 10 dropwise. The resulting solution was incubated at -78° C for 4.0 h. The reaction was quenched by addition of 10% citric acid, and extracted with ethyl acetate (3 X 100 mL). The combined organic solution was washed with water, brine, and dried over MgSO4. The solution was 15 filtered and concentrated. The crude material was purified by flash column with (Ethyl acetate/ Hexane: 15-25:85-75) to afford the desired product (2.8 g, 71% yield) as a white solid, and 0.1g of other 20 diastereomer. ESI-MS (M+H) : calcd 542, found 542.

(d) N-(2R-hydroxy-1S-indany1)-2R-(4-Benzyloxy-phenylmethyl)-3-(hydroxy-carbonyl) propanamide:

To a solution of 1.13 g of N-(2R-hydroxy-1S-indanyl)-2R-(4-Benzyloxy-phenylmethyl)-3-(tert-butoxycarbonyl) propanamide in 7.6 mL methylene chloride and 0.4 mL water was dropwise added 8.0 mL of TFA. The reaction was stirred at room temperature for 50 min. The solution mixture was concentrated to half of its original volume. The residue was then dried by co-evaporation with toluene (3 X 15 mL) and directly used in the next step. ESI-MS (M+H)*: calcd 446, found 446.

(e) N-(2R-hydroxy-1S-indanyl)-2R-(4-Benzyloxy-phenylmethyl)-3-(N-hydroxyaminocarbonyl)propan-amide:

To a cooled (0° C) solution of 104 mg of N-(2Rhydroxy-1S-indanyl)-2R-(4-Benzyloxy-phenylmethyl)-3(hydroxy-carbonyl) propanamide in 1.2 mL DMF was added
112 mg of O-benzyl hydroxylamine-HCl, and 78.8 mg of
TBTU, followed by addition of 0.24 mL of
ethyldiisopropyl amine. The reaction was stirred at 0°
10 C for 15 min. and warmed to room temperature. After
2h, the reaction mixture was poured into ethyl acetate
/ 5% citric acid, the aqueous solution was extracted
with ethyl acetate (3 X 25 mL). The combined organic
solution was washed with 5% citric acid, water, sat.
15 NaHCO₃, brine, and dried over MgSO₄. The solution was
filtered and concentrated to afford 105 mg of desired
product.

To 105 mg of the above in 6 mL methanol was added 20 60 mg of 5% Pd/BaSO₄. The mixture was shaken under 50 psi H₂ for 4 hour. The reaction mixture was filtered and concentrated and purified by reverse HPLC to afford 47 mg of the desired hydroxamic acid as a white solid. ESI-MS (M+H)⁺: calcd 371, found 371.

25

Example 7: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-methoxy-phenyl)methyl]-butanediamide:

Prepared by the method described in example 6 to 30 give the desired material. ESI-MS (M+H): calcd 385, found 385.

Example 8: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(hydroxy-phenyl)methyl]-butanediamide:

Prepared by the method described in example 6 to give the desired material. ESI-MS $(M+H)^+$: calcd 355, found 355.

5 Example 9: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-phenyl-propyl]butanediamide:

Prepared by the method described in example 6 to give the desired material. ESI-MS (M+H)*: calcd 383, found 383.

Example 10: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(benzyloxy)-phenyl]methyl]-butanediamide:

Prepared by the method described in example 6 to give the desired material. ESI-MS (M+H)*: calcd 461, found 461.

Example 11: N1-[2(R)-hvdroxy-1(S)-indanyl]-N4-hydroxy20 2(R)-[[3-(benzyloxy)-phenyl]methyl]-butanediamide:

Prepared by the method described in example 6 to give the desired material. ESI-MS $(M+H)^+$: calcd 461, found 461.

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Example 12: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-butanediamide:

Prepared by the method described in example 6 to 30 give the desired material. ESI-MS (M+H)*: calcd 371, found 371.

Example 13: N1-[2(R)-hydroxy-1(S)-indanyll-N4-hydroxy-2(R)-[4-(fluoro-phenyl)methyll-butanediamide:

Prepared by the method described in example 6 to give the desired material. ESI-MS (M+H)*: calcd 373, found 373.

5 Example 14: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3,4-(methylenedioxy-phenyl)methyl]-butanediamide:

Prepared by the method described in example 6 to give the desired material. ESI-MS (M+H)*: calcd 379, found 379.

Example 15: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(methoxy-phenyl)methyl]-butanediamide:

Prepared by the method described in example 6 to give the desired material. ESI-MS (M+H)*: calcd 385, found 385.

Example 16: : N1-[2(R)-hvdroxv-1(S)-indanvl]-N4 20 hvdroxv-2(R)-[[4-(phenvl)phenvl]methyl]-butanediamide:

(a) N-(1S,2R-N,O-dimethyl acetonide-indanyl)-2R-(4-phenyl)phenylmethyl-3-(tert-butoxycarbonyl) propanamide:

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To 2.6 g N-(1S ,2R-N,O-dimethyl acetonide-indanyl)-2R-(4-Benzyloxy-phenylmethyl)-3-(tert-butoxycarbonyl) propanamide in 20 mL methanol was added 300 mg of 5% Pd/C. The mixture was shaken under 50 psi $\rm H_2$ for 17 hour. The reaction mixture was filtered and concentrated to afford 2.0 g of the desired product.

To a cooled (0° C) solution of 1.2 g of N-(2R-hydroxy-1S-indanyl)-2R-(4-hydroxy-phenylmethyl)-3
(tert-butoxycarbonyl) propanamide and 0.95 g of PhN(tf)₂ in 9.0 mL of methylene chloride was dropwise

added 0.77 mL Et₃N. After 45 min at 0° C, the reaction mixture was diluted in ethyl ether (60 mL), washed with sat NaHCO₃, brine, and dried over MgSO₄. The crude mater was purified by flash column with 20% ethyl acetate in hexane to afford the desired product as a colorless oil.

mg of PPh₃ in 1.4 mL toluene and 1.4 mL 0.35M Na₂CO₃
10 aq. solution was added catalytical amount (6.0 mg) of Pd(Ac)₂. The resulting mixture was stirred at 60° C for 10 min, followed by addition of 44 mg of benzene bornic acid as solid. The reaction was heated at 70° C. After four hour, the reaction mixture was then diluted with ethyl acetate, washed with water, brine, and dried over MgSO4. The crude material was purified by 15% ethyl acetate in hexane to afford 127.1 mg of desired product as a colorless oil. ESI-MS (M+H)⁺: calcd 431, found 431.

20

(b) N-(2R-hydroxy-1S-indanyl)-2R-(4-phenyl)phenyl-methyl-3-(N-hydroxyaminocarbonyl)propanamide:

Following the method used in the synthesis of

25 example 1, the above N-(1S,2R-N,O-dimethyl acetonide-indanyl)-2R-(4-phenyl)phenylmethyl-3-(tert-butoxycarbonyl) propanamide was treated with TFA,

followed by coupling with hydroxylamine to yield the desired N-(2R-hydroxy-1S-indanyl)-2R-(4-phenyl)
phenylmethyl-3-(N-hydroxyaminocarbonyl)-propanamide as a white solid. ESI-MS (M+H)*: calcd 431.2, found 431.2

Example 17: N1-[2(R)-hvdroxy-1(S)-indanyll-N4-hydroxy-2(R)-[[4-(2-tert-butylaminosulfonyl-

35 phenyl)phenyllmethyllbutanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 566, found 566.

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Example 18: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-methoxy-phenyl)phenyl]methyl-lbutanediamide:

10 Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 461, found 461.

Example 19: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy 2(R)-[[4-(3-trifluoromethyl-phenyl)phenyl]methyl]butanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 499, 20 found 499.

Example 20: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[(3-hydroxy-4-methoxyphenyl)-methyl]butanediamide:

25 Prepared by the method described in example 6 to give the desired material. ESI-MS (M+H)*: calcd 401, found 401.

Example 21: N1-[2(R)-hvdroxy-1(S)-indanyl]-N4-hvdroxy 2(R)-[[3-(3-thiophene)-isoxazoline]methyl]butanediamide:

Prepared by the method described in example 6 to give the desired material. ESI-MS (M+H)⁺: calcd 429, found 429.

Example 22: N1-[2(R)-hvdroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-chloro-phenyl)-phenyl]-methyl]butanediamide:

5 Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)⁺: calcd 465.5, found 465.5.

Example 23: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy 10 2(R)-[[4-(2-benzofuran)-phenyl]-methyl]butanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS $(M+H)^+$: calcd 471, found 471.

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Example 24: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-methyl-phenyl)-phenyl]-methyl]butanediamide:

20 Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 445, found 445.

Example 25: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy25 2(R)-[[3,4-(methylenedioxy-phenyl)phenyl]methyl]butanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS $(M+H)^+$: calcd 475, found 475.

Example 26: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-tetrazole-phenyl)-phenyl]-methyl]butanediamide:

35

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 499, found 499.

5 Example 27: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-phenyl])phenyl]methyl]-butanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H) : calcd 431, 10 found 431.

Example 28: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-methyl-phenyl]methyl]-butanediamide:

15 Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H) : calcd 445, found 445.

Example 29: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy20 2(R)-[4-(amino-phenyl)methyl]-butanediamide:

Prepared by the method described in example 6 to give the desired material. ESI-MS $(M+H)^+$: calcd 370, found 370.

25 Example 30: N1-[2(R)-hydro

Example 30: N1-[2(R)-hydroxy-1(S)-indanyll-N4-hydroxy-2(R)-[[4-(benzyloxy-carbonyl)-amino]phenyl)methyll-butanediamide:

30 Prepared by the method described in example 6 to give the desired material. ESI-MS $(M+H)^+$: calcd 504, found 504.

Example 31: N1-[2(R)-hydroxy-1(S)-indanyll-N4-hydroxy35 2(R)-[[4-(2-hydroxymethlene)phenyl)-phenyllmethyllbutanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 461, found 461.

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Example 32: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,4,5-trimethoxy-phenyl)phenyl]methyl]-butanediamide:

Prepared by the method described in example 16 to 10 give the desired material. ESI-MS (M+H): calcd 521, found 521.

Example 33: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2,4-di-methoxy-phenyl)-phenyl]methyl]-

15 <u>butanediamide:</u>

Prepared by the method described in example 16 to give the desired material. ESI-MS $(M+H)^+$: calcd 491, found 491.

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Example 34: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,5-di-chloro-phenyl)-phenyl]methyl]butane-diamide:

25 Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)⁺: calcd 499, found 499.

Example 35: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy30 2(R)-[[4-(2-trifluoromethyl-phenyl)-phenyl]methyllbutanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 499, found 499.

Example 36: N1-[2(R)-hvdroxy-1(S)-indanyl]-N4-hvdroxy-2(R)-[[4-(3-isopropyl-phenyl)-phenyl]methyl]butane-diamide:

5 Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)⁺: calcd 473, found 473.

Example 37: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy10 2(R)-[[4-(2,4-dichloro-phenyl)-phenyl]methyl]butanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)⁺: calcd 499, found 499.

Example 38: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-chloro-4-fluoro-phenyl)-phenyl]methyll-butanediamide:

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Prepared by the method described in example 16 to give the desired material. ESI-MS $(M+H)^+$: calcd 483, found 483.

25 Example 39: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(p-toluenesulfonylamino)-phenyl]methyll-butanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 524, found 524.

Example 40: N1-[2(R)-hydroxy-1(S)-indanyll-N4-hydroxy-2(R)-phenylmethyl-3(S)-(tert-butyloxy-carbonyl-amino)-butanediamide:

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To a solution of 20g of Boc-Asp(OBn)-OH and 8.9 g of K₂CO₃ in 200 mL DMF was added 4.04 mL of CH₃I. The reaction mixture was stirred at room temperature for 12 h. The mixture was diluted in water, extracted with diethyl ether. The combined organic layer was washed with sat. NaHCO₃, water and brine. The crude material was recrystalized from diethyl ether and hexane to afford 19.2g of the desired product Boc-Asp(OBn)-OCH₃.

To a cooled (-78 °C) solution of 2.5 g of compound 10 Boc-Asp(OBn)-OCH3 in 49 mL toluene was added dropwise 15.2 mL of (1.0 M in THF) LiHMDS over 15 min. The resulting solution was stirred at -78 °C for 1.0 h, followed by addition of 1.4 mL benzyl bromide. The solution was stirred at -50 °C overnight. The reaction was quenched with 10% citric acid, and extracted with diethyl ether. The organic layer was washed with sat. brine, dried over Na₂SO₄. The crude material was purified by 15% ethyl acetate to afford 2.1 g (64% yield) of desired product.

20 1.0 g (2.34 mmmol) above product and 500 mg of 10% Pd/C was hydrogenated at 32 Psi for two hour. The reaction mixture was filtered, and concentracted to afford a residue.

678 mg (2.01 mmol) above acid was coupled with 314
25 mg cis-2-amino indanol using 933 mg of BOP as the coupling reagent in DMF to afford 867 mg of coupling product N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-phenylmethyl-3(S)-(tert-butylxoy-carbonyl-amino)-4-(tert-butoxycarbonyl) butan-amide.

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To a cooled solution of 268 mg of N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-phenylmethyl-3(S)-(tert-butylxoy-carbonyl-amino)-4-(tert-butoxycarbonyl)butan-amide.in 4.3 mL THF was added 0.43 mL (2.5 M in H₂O) LiOH solution. The reaction mixture was stirred at 0 °C for 30 min. The reaction was quenched with 10% citric acid, extracted with EtOAc,

the organic layer was washed with sat. brine, and dried over Na_2SO_4 . The solvent was removed to afford 252.1 mg of the product as white solid.

The above acid (252 mg, 0.555 mmol) was treated

with 257 mg of BOP and 116 mg of hydroxylamine in DMF.

The crude material was purified by RP-HPLC (column:

41.5 X 250 mm C18 dynamax, gradient: 15 to 65%

acetonitrile with 0.1% TFA over 25 min. The sample was detected at 220 nM.) to give the desired material N1
[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)
phenylmethyl-3(S)-(tert-butylxoy-carbonyl-amino)
butanediamide, ESI-MS (M+H)*: calcd 470, found 470.

Example 41: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy 2(R)-[(4-(3,4-methylenedioxyphenyl)-phenyl]methyll3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide:

Prepared by the method described in example 40 to give the desired material. ESI-MS (M+H)⁺: calcd 588, found 588.

Example 42: N1-[2(R)-hvdroxy-1(S)-indanvll-N4-hvdroxy-2(R)-[[4-(3-methoxyphenyl)-phenyl]methyl]butanediamide:

25 Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 461, found 461.

Example 43: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy30 2(R)-[[4-(3-fluorophenyl)-phenyl]-methyl]butanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS $(M+H)^+$: calcd 449, found 449.

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Example 44: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(fluoro-phenyl)methyl]-3(S)-(tert-butyloxy-carbonyl-amino)-butanediamide:

5 Prepared by the method described in example 40 to give the desired material. ESI-MS (M+H)*: calcd 488, found 488.

Example 45: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy
2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(tert-butyloxy-carbonyl-amino)-butanediamide:

Prepared by the method described in example 40 to give the desired material. ESI-MS (M+H)⁺: calcd 486, found 486.

Example 46: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-nitrophenyl)-methyl]butanediamide:

20 Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)⁺: calcd 476, found 476.

Example 47: N1-[2(R)-hydroxy-1(S)-indanyll-N4-hydroxy25 2(R)-[[4-(3-(methylsulfonyl-amino)-phenyl)phenyllmethyl]butanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)⁺: calcd 524, found 524.

Example 48: N1-[2(R)-hydroxy-1(S)-indanvl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2,2-dimethyl-propionamido)-butanediamide:

35

30

Prepared by the method described in example 40 to give the desired material. ESI-MS $(M+H)^+$: calcd 470, found 470.

5 Example 49: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(ethyloxy-carbonyl-amino)-butanediamide:

Prepared by the method described in example 40 to 10 give the desired material. ESI-MS (M+H)*: calcd 458, found 458.

Example 50: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(iso-butyloxycarbonyl-amino)-butanediamide:

Prepared by the method described in example 40 to give the desired material. ESI-MS $(M+H)^+$: calcd 486, found 486.

20

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Example 51: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(propionamido)-butanediamide:

25 Prepared by the method described in example 40 to give the desired material. ESI-MS (M+H)*: calcd 458, found 458.

Example 52: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy 30 2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-methyl-cyclo-propane carboxamido-1-yl)-butanediamide:

Prepared by the method described in example 40 to give the desired material. ESI-MS (M+H) : calcd 452, found 452.

Example 53: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2,2-dimethyl-propyl-amino)-butanediamide:

5 Prepared by the method described in example 40 to give the desired material. ESI-MS (M+H)*: calcd 455, found 455.

Example 54: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy
2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(methylsulfonyl-amino)-butanediamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)*: calcd 464, 15 found 464.

Example 55: N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-amino-butane-diamide:

20

Prepared by the method described in example 40 to give the desired material. ESI-MS (M+H)*: calcd 386, found 386.

25 Example 56: N1-[2(R)-hvdroxv-1(S)-indanvll-N4-hvdroxv-2(R)-[4-(methvlsulfonvlamino)-phenyl)methvl]butane-diamide:

Prepared by the method described in example 16 to give the desired material. ESI-MS (M+H)⁺: calcd 448, found 448.

Table 1

5

•			
Ex#	R ₂	R ₃	M+H
1	Н	iso-butyl	321
2	CH2CH2CO2H	iso-butyl	393
3	methyl	iso-butyl	335
. 4	n-propyl	iso-butyl	363
5	n-propyl	n-C6H13	391
6	Н	4-hydroxyphenylmethyl	371
7	Н	4-methoxyphenylmethyl	385
8	Н	4-hydroxyphenylmethyl	355
9	н	3-phenylpropyl	383
10	Н	4-benzyloxyphenylmethyl	461
11	Н	3-benzyloxyphenylmethyl	461
12	Н	3-hydroxyphenylmethyl	371
13	Н	4-fluorophenylmethyl	373
14	Н	3,4-methylenedioxy	379
		phenylmethyl	
15	Н	3-methoxyphenylmethyl	385
16	н	4-phenyl-phenylmethyl	431
17	н	4-(2-(tert-	566
		butylaminosulfonyl)-	
		phenylphenylmethyl	
18	н	4-(2-methoxyphenyl)-	461
		phenylmethyl	
19	Н	4-(3-trifluoromethyl-	499
		phenyl)-phenylmethyl	
20	Н	(3-hydroxy-4-	401
		methoxy)phenylmethyl	
21	Н	3-(3-thiophene)-	429
		isoxazoline-methyl	

22			
22	Н	4-(2-chlorophenyl)-	465
		phenylmethyl	
23	н	4-(2-benzofuran)-	471
		phenylmethyl	
24	н	4-(2-methylphenyl)-phenyl-	445
	·	methyl	
25	н	(3,4-methylene-	475
		dioxyphenyl)phenyl-methyl	
26	Н	4-(2-tetrazolephenyl)-	499
		phenyl-methyl	·
27	Н	3-phenylphenylmethyl	431
28	н	(3-methyl-phenyl)-	445
		phenylmethyl	
29	Н	4-amino-phenylmethyl	370
30		4-benzyloxy-	504
		carbonyl-amino-phenylmethyl	
31	н	4-(2-hydroxymethylene-	461
		phenyl)phenylmethyl	
32	н	4-(3,4,5-trimethoxy-	521
	**	phenyl)phenylmethyl	
33	Н	4~(2,4-dimethoxy-	491
		phenyl)phenylmethyl	1
34	н	4-(3,5-dichloro-phenyl)-	499
		phenylmethyl	
35	Н	4-(2-trifluoromethyl-	499
		phenyl)phenylmethyl	
36	н	4-(3-isopropyl-	473
		phenyl)phenyl-methyl	
37	Н	4-(2,4-dichloro-	499
		phenyl)phenyl-methyl	
38	7.7	4-(3-chloro,4-fluoro-	483
	н	phenyl)phenylmethyl	
39	Н	4-(p-toluenesulfonyl-	524
		amino)-phenylmethyl	
40	BocNH	phenylmethyl	470
41	BocNH	4-(3,4-methylenedioxy-	588
		phenyl) phenylmethyl	

42			
	н	4-(3-methoxy-	461
		phenyl) phenylmethyl	
43	н	4-(3-fluoro-	449
		phenyl) phenylmethyl	
44	ВосИН	3-fluorophenylmethyl	488
45	ВосИН	3-hydroxyphenylmethyl	486
46	н	4-(3-nitro-	476
		phenyl)phenylmethyl	
47	н	4-(3-methylsulfonylamino-	524
1		phenyl) phenylmethyl	
4.8	2,2-dimethylpropionamido	3-hydroxyphenylmethyl	470
49	ethoxycarbonylamino	3-hydroxyphenylmethyl	458
50	iso-butoxy-carbonyl-amino	3-hydroxyphenylmethyl	486
51	propionamido	3-hydroxyphenylmethyl	458
52	1-methylcyclopropane carboxamido-1-yl	3-hydroxyphenylmethyl	452
53	2,2-dimethylpropylamino	3-hydroxyphenylmethyl	455
54	methylsulfonylamino	3-hydroxyphenylmethyl	464
55	amino	3-hydroxyphenylmethyl	386
56	Н	4-(methylsulfonyl-	448
		amino)phenylmethyl	

The following tables contain representative examples of the present invention. Each entry in each table is intended to be paired with the formula at the start of the table.

HO
$$\frac{R_3}{R_2}$$
 $\frac{R_3}{N}$ $\frac{OH}{R_2}$ $\frac{R_3}{N}$ $\frac{OH}{N}$ $\frac{R_3}{R_2}$ $\frac{OH}{N}$ $\frac{R_3}{N}$ $\frac{OH}{N}$ $\frac{R_3}{R_2}$ $\frac{OH}{N}$ $\frac{R_3}{N}$ $\frac{OH}{N}$ $\frac{R_3}{R_2}$ $\frac{OH}{N}$ $\frac{R_3}{N}$ $\frac{OH}{N}$ $\frac{R_3}{R_2}$ $\frac{OH}{N}$ $\frac{R_3}{N}$ $\frac{OH}{N}$ $\frac{OH}{N}$ $\frac{R_3}{N}$ $\frac{OH}{N}$ $\frac{OH$

HO, N
$$R_2$$
 OH R_2 OH R_2 OH R_2 N R_2 OH R_2 N $R_$

HO, N
$$= 1, 2, 3$$
 XXII

HO
$$R_2$$
 OH R_3 OH R_2 OH R_2 OH R_3 N R_2 OH R_3 N R_4 N R_2 N R_4 N R_5 N R_5

HO. N.
$$R_2$$
 OH XXVII

HO N H
$$\stackrel{\circ}{\underset{R_2}{\overset{\circ}{\longrightarrow}}}$$
 $\stackrel{\circ}{\underset{R_2}{\overset{\circ}{\longrightarrow}}}$ $\stackrel{\circ}{\underset{H}{\overset{\circ}{\longrightarrow}}}$ $\stackrel{\circ}{\underset{H}{\overset{\circ}{\longrightarrow}}}$ $\stackrel{\circ}{\underset{H}{\overset{\circ}{\longrightarrow}}}$

HO.
$$N \to 0$$
 $R_2 \to 0$
 $R_3 \to 0$
 $R_3 \to 0$
 $R_4 \to 0$
 $R_2 \to 0$
 $R_3 \to 0$
 $R_4 \to 0$
 $R_5 \to 0$
 $R_7 \to 0$
 $R_7 \to 0$
 $R_7 \to 0$

$$X = CH_2$$
, O, S, S(O), S(O)

HO N
$$R_2$$
 O R_3 R_3 R_4 OH R_2 OH R_3 R_4 OH R_4 R_5 OH R_5 R

Ex #	R2	R3	Ms
200	Н	Н	
201	Н	methyl	
202	Н	ethyl	•
203	Н	n-propyl	
204	Н	n-butyl	
205	Н	. n-pentyl	
206	H	n-hexanyl	
207	Н	n-heptanyl	
208	Н	isopropyl	
209	H	tert-butyl	
210	<u> </u>	cyclopropyl	
211	Н	cyclobutanyl	
212	Н	cyclopentanyl	<u> </u>
213	Н	cyclohexanyl	
214	Н	cycloheptanyl	
215	Н	phenyl	
216	Н	phenylmethyl	
217	H	3-hydroxyphenyl	
218	H	3-hydroxy-4-methoxyphenyl	
219	Н	3-fluorophenyl	
220	Н	3-chlorophenyl	
221	H	3-nitrophenyl	
		3-aminophenyl	
223	<u>Н</u> Н	3-methylsulfonamidephenyl 3-trifluoro-	
224	п	methylsulfonamidephenyl	
225	Н	3-Ac-NHphenyl	
226	Н	3-Boc-NHphenyl	
227	H	3-Cbz-NHphenyl	
228	H	3-aminomethylenephenyl	
229	H	3-aminoethylenephenyl	
230	Ĥ	3-cyanophenyl	
231	H	3-cyanomethylphenyl	
232	H	3-hydroxymethylenephenyl	
233	Н	3-carboxylphenyl	
234	Н	3-mercaptophenyl	
235	Н	3-methoxyphenyl	
236	Н	3,4-methylenedioxophenyl	
237	Н	3-tetrazolephenyl	
238	H	3-aminosulfonylphenyl	
239	Н	3-methylamino-	
		sulfonylphenyl	
240	Н	3-ethylamino-sulfonylphenyl	
241	Н	3-tert-butylamino-	
		sulfonylphenyl	
242	H	3-methylsulfonylphenyl	
243	H	4-methoxyphenyl	
244	H	4-phenylphenyl	
245	Н	(2-hydroxy-	İ
246	Н	methylenephenyl)-phenyl	
440	л	(2-tert-butylamino-	İ
247	Н	sufonylphenyl)-phenyl (2-methylamino-	
""	n	sufonylphenyl)-phenyl	İ
248	Н	(2-ethylamino-	
~~	**	sufonylphenyl)-phenyl	i
249	Н	(2-amino-sufonylphenyl)-	
	••	phenyl ,	İ
250	H	(2-chlorophenyl)-phenyl	
251	H	(2-fluorophenyl)-phenyl	
252	H	(2,4-dichlorophenyl)-phenyl	j
	 		

053			
253	Н	(2,6-dichlorophenyl)-phenyl	
254	H	(3,5-dichlorophenyl)-phenyl	
256	H	(2,3-dichlorophenyl)-phenyl	
257	H	(2-methylphenyl)-phenyl	
258		(2-tetrazole-phenyl)-phenyl	
259	H	(2-methoxy-phenyl)-phenyl	
260	H	(2-tmethyl-phenyl)-phenyl	
261	H	(2-formyl-phenyl)-phenyl	
		(2-formy1-pheny1)-pheny1	
262	<u> </u>	(2-amino-phenyl)-phenyl	
263	Н	(2-methylamino-phenyl)-	
	·	phenyl	
264	Н	(2-ethylamino-phenyl)-	
		phenyl	
265	• Н	(2-propylamino-phenyl)-	
		phenyl	
266	H	(2-methylsulfonylamino-	
		phenyl)-phenyl	•
267	Н	(2-trifluoromethyl-	
207	n		
1		sulfonyl-amino-phenyl)-	
	·	phenyl	-
268	H	(3-methylphenyl)-phenyl	
269	H	(3-isopropylphenyl)-phenyl	
270	H	(3-trifluoromethyl-	
		sulfonyl-amino-phenyl)-	
l i		phenyl	
271	Н	(3-methylsulfonylamino-	
	••	phenyl)-phenyl	
272	н	(3-amino-phenyl)-phenyl	
273	H	(3-nitro-phenyl)-phenyl	
274	Н	2-pyridyl	
275	· H	3-pyridyl	
276	н .	4-pyridyl	
277	Н	3-amino-4-pyridyl	
278	H	3-hydroxy-4-pyridyl	
279	H	3-imidazole	
280	H		
		2-nitro-3-imidazole	
281	H	5-thiazole	
282	Н	5-oxazole	
283	Н	4-pyazole	
284	Н	phenylethyl	
285	H	2-aminophenylethyl	
286	H	2-methylsulfonylamino-	
200	••	phenylethyl	
287	Н	phenylechyl	-
201	n		
		trifluoromethylsulfonylamin	
		o-phenylethyl	
288	Н	2-hydroxymethylene-	
		phenylethyl	
289	H	2-aminomethylene-	
		phenylethyl	
290	Н	2-tetrazolephenylethyl	
291	Ĥ	2-tert-butylamino-	
	••	sulfonylphenylethyl	
292	Н		
293		2-aminosulfonyl-phenylethyl	
	H	2-methoxyphenylethyl	
294	H	3-aminophenylethyl	
295	Н	3-methylsulfonylamino-	
		phenylethyl	
296	Н	3-	
1		trifluoromethylsulfonylamin	
		o-phenylethyl	
297	Н	3-hydroxymethylene-	
	**	phenylethyl	
298	¥		
470	Н	3-aminomethylene-	
		phenylethyl	

299	H	3-tetrazolephenylethyl	
300	H H	3-tert-butylamino-	
***	•	sulfonylphenylethyl	
301	H	3-aminosulfonyl-phenylethyl	
302	H	3-methoxyphenylethyl	
303	methyl	Н	
304	methyl	methyl	
305	methyl	ethyl	
306	methyl		
307		n-propyl	
308	methyl methyl	n-butyl	
309		n-pentyl	
310	methyl	n-hexanyl	
	methyl	n-heptanyl	
311	methyl	isopropyl	
312	methyl	tert-butyl	
313	methyl	cyclopropyl	<u> </u>
314	methyl	cyclobutanyl	
315	methyl	cyclpentanyl	
316	methyl	cyclohexanyl	
317	methyl	cycloheptanyl	
318	methyl	phenyl	
319	methyl	phenylmethyl	
320	methyl	3-hydroxyphenyl	
321	methyl	3-hydroxy-4-methoxyphenyl	
322	methyl	3-fluorophenyl	
323	methyl	3-chlorophenyl	
324	methyl	3-nitrophenyl	
325	methyl	3-aminophenyl	
326	methyl	3-methylsulfonamidephenyl	
327	methyl	3-trifluoro-	
""	weeni i	methylsulfonamidephenyl	
327	methyl	3-Ac-NHphenyl	
329	methyl	3-Boc-NHphenyl	
330	methyl	3-Cbz-NHphenyl	
331	Methyl	3-aminomethylenephenyl	
332			
333	methyl	3-aminoethylenephenyl	
334	methyl	3-cyanophenyl	
	methyl	3-cyanomethylphenyl	
335	methyl	3-hydroxymethylenephenyl	
336	methyl	3-carboxylphenyl	
337	methyl	3-mercaptophenyl	
338	methyl	3-methoxyphenyl	
339	methyl	3,4-methylenedioxophenyl	
340	methyl	3-tetrazolephenyl	
341	methyl	3-aminosulfonylphenyl	
342	methyl	3-methylamino-	
		sulfonylphenyl	
343	methyl	3-ethylamino-sulfonylphenyl	
344	methyl	3-tert-butylamino-	
		sulfonylphenyl	
345	methyl	3-methylsulfonylphenyl	
346	methyl	4-methoxyphenyl	
347	methyl	4-phenylphenyl	
348	methyl	2-hydroxymethylene-phenyl)-	
	<u>-</u>	phenyl	
349	methyl	(2-tert-butylamino-	
	<u>-</u>	sufonylphenyl)-phenyl	
350	methyl	(2-methylamino-	
		sufonylphenyl)-phenyl	
351	methyl	(2-ethylamino-	
		sufonylphenyl)-phenyl	
		(2	
352	mernvi	(Z-aminosuronvi-phenvi)- i	
352	methy1	(2-aminosufonyl-phenyl)- phenyl	

354 methyl (2-fluorophenyl)-pher 355 methyl (2,4-dichlorophenyl)-ph 356 methyl (2,6-dichlorophenyl)-ph 357 methyl (3,5-dichlorophenyl)-ph 358 methyl (2,3-dichlorophenyl)-ph 359 methyl (2-methylphenyl)-pher 360 methyl (2-tetrazole-phenyl)-ph	nenyl nenyl nenyl nenyl nenyl
356 methyl (2,6-dichlorophenyl)-ph 357 methyl (3,5-dichlorophenyl)-ph 358 methyl (2,3-dichlorophenyl)-ph 359 methyl (2-methylphenyl)-phenyl	nenyl nenyl nenyl
357 methyl (3,5-dichlorophenyl)-pl 358 methyl (2,3-dichlorophenyl)-pl 359 methyl (2-methylphenyl)-phenyl	nenyl nenyl
358 methyl (2,3-dichlorophenyl)-pl 359 methyl (2-methylphenyl)-pher	nenyl nyl
359 methyl (2-methylphenyl)-pher	ny1
	nenvii i
361 methyl (2-methoxy-phenyl)-phe	
362 methyl (2-tmethyl-phenyl)-phe	envl
363 methyl (2-formyl-phenyl)-phe	nvl
364 methyl (2-amino-phenyl)-phenyl	
365 methyl (2-methylamino-pheny)	
phenyl	
366 methyl (2-ethylamino-phenyl phenyl	
367 methyl (2-propylamino-phenyl phenyl	1)-
368 methyl (2-methylsulfonylamin phenyl)-phenyl	no-
369 methyl (2-trifluoromethyl-	-
sulfonyl-amino-pheny.	
phenyl	
370 methyl (3-methylphenyl)-pher	nyl
371 methyl (3-isopropylphenyl)-ph	enyl
372 methyl (3-trifluoromethyl-	
sulfonyl-amino-phenyl	
373 methyl (3-methylsulfonylamin	no-
phenyl)-phenyl	
374 methyl (3-amino-phenyl)-phenyl	
375 methyl (3-nitro-phenyl)-phenyl	nyl
376 methyl 2-pyridyl	
377 methyl 3-pyridyl	
378 methyl 4-pyridyl	
379 methyl 3-amino-4-pyridyl	
380 methyl 3-hydroxy-4-pyridy	1
381 methyl 3-imidazole	
382 methyl 2-nitro-3-imidazol	е
383 methyl 5-thiazole	
384 methyl 5-oxazole 385 methyl 4-pyazole	
386 methyl phenylethyl 387 methyl 2-aminophenylethyl	
388 methyl 2-methylsulfonylamir	
phenylethyl	
389 methyl 2-trifluoromethyl-	-
sulfonylamino-phenyle	thyl
390 methyl 2-hydroxymethylene phenylethyl	-
391 methyl 2-aminomethylene-	
phenylethyl	212
392 methyl 2-tetrazolephenyleth	
393 methyl 2-tert-butylamino- sulfonylphenylethy	1
394 methyl 2-aminosulfonyl-phenyl	
395 methyl 2-methoxyphenylethy	
396 methyl 3-aminophenylethyl	
397 methyl 3-methylsulfonylamir phenylethyl	no-
398 methyl 3- trifluoromethylsulfony o-phenylethyl	lamin
399 methyl 3-hydroxymethylene phenylethyl	-

400	methyl	3-aminomethylene-	
		phenylethyl	
401	methyl	3-tetrazolephenylethyl	
402	methyl	3-tert-butylamino-	
403	methyl	sulfonylphenylethyl 3-aminosulfonyl-phenylethyl	
404	. methyl	3-methoxyphenylethyl	
405	OH	H H	
406	OH	methyl	
407	OH	ethyl	
408	OH	n-propyl	
409	OH	n-butyl	
410	OH	n-pentyl	
411	OH	n-hexanyl	Î
412	ОН	n-heptanyl	
413	OH	isopropyl	
414	OH	tert-butyl	
415	OH	cyclopropyl	
416	OH	cyclobutanyl	
417	OH	cyclpentanyl	
418	OH OH	cyclohexanyl	
419	OH OH	cycloheptanyl phenyl	
421	OH	phenylmethyl	
422	OH	3-hydroxyphenyl	
423	OH OH	3-hydroxy-4-methoxyphenyl	
424	OH	3-fluorophenyl	
425	OH	3-chlorophenyl	
426	ОН	3-nitrophenyl	
427	ОН	3-aminophenyl	
428	ОН	3-methylsulfonamidephenyl	
429	ОН	3-trifluoro-	
130	011	methylsulfonamidephenyl	
430	OH OH	3-Ac-NHphenyl 3-Boc-NHphenyl	
432	OH	3-Cbz-NHphenyl	
433	OH	3-aminomethylenephenyl	
434	OH	3-aminoethylenephenyl	
435	OH	3-cyanophenyl	
436	OH	3-cyanomethylphenyl	
437	ОН	3-hydroxymethylenephenyl	
438	ОН	3-carboxylphenyl	
439	ОН	3-mercaptophenyl	
440	ОН	3-methoxyphenyl	
441	ОН	3,4-methylenedioxophenyl	
442	ОН	3-tetrazolephenyl	
443	ОН	3-aminosulfonylphenyl	
444	ОН	3-methylamino-	
1		sulfonylphenyl	
445	OH	3-ethylamino-sulfonylphenyl	
446	ОН	3-tert-butylamino- sulfonylphenyl	
447	ОН	3-methylsulfonylphenyl	
448	ОН	4-methoxyphenyl	
449	ОН	4-phenylphenyl	
450	ОН	(2-hydroxymethylene-	
		phenyl)-phenyl	
451	ОН	(2-tert-butylamino-	
	211	sufonylphenyl)-phenyl	
452	ОН	(2-methylamino- sufonylphenyl)-phenyl	
453	ОН	(2-ethylamino-	
L		sufonylphenyl)-phenyl	

454	ОН	(2-aminosufonyl-phenyl)-
455	ОН	phenyl (2-chlorophenyl)-phenyl
456	ОН	(2-fluorophenyl)-phenyl
457	OH	
458		(2,4-dichlorophenyl)-phenyl
	OH	(2,6-dichlorophenyl)-phenyl
459	OH	(3,5-dichlorophenyl)-phenyl
460	OH	(2,3-dichlorophenyl)-phenyl
461	OH	(2-methylphenyl)-phenyl
462	ОН	(2-tetrazole-phenyl)-phenyl
463	OH	(2-methoxy-phenyl)-phenyl
464	ОН	(2-tmethyl-phenyl)-phenyl
465	OH	(2-formyl-phenyl)-phenyl
466	ОН	(2-amino-phenyl)-phenyl
467	ОН	(2-methylamino-phenyl)-
		phenyl
468	ОН	(2-ethylamino-phenyl)- phenyl
469	ОН	(2-propylamino-phenyl)- phenyl
470	OH	(2-methylsulfonylamino-
		phenyl)-phenyl
471	ОН	(2-trifluoromethyl-
•/•	,	sulfonyl-amino-phenyl)-
	•	phenyl
472	OH	(3-methylphenyl)-phenyl
473	ОН	(3-isopropylphenyl)-phenyl
474	OH	(3-trifluoromethyl-
7.7	O.i.	sulfonyl-amino-phenyl)-
		phenyl
475	OH	(3-methylsulfonylamino-
1 4/3	On	phenyl)-phenyl
476	ОН	(3-amino-phenyl)-phenyl
477	OH	(3-nitro-phenyl)-phenyl
478	OH	2-pyridyl
479	OH	3-pyridyl
480	OH	4-pyridyl
481	ОН	3-amino-4-pyridyl
482	OH	3-hydroxy-4-pyridyl
483	OH	3-imidazole
484	OH	2-nitro-3-imidazole
485	OH	5-thiazole
486	OH	5-oxazole
487	OH	4-pyazole
488	ОН	phenylethyl
489	ОН	2-aminophenylethyl
490	ОН	2-methylsulfonylamino-
1 1		phenylethyl
491	ОН	2-trifluoromethyl-
-		sulfonylamino-phenylethyl
492	OH	2-hydroxymethylene-
		phenylethyl
493	OH	2-aminomethylene-
		phenylethyl
494	ОН	2-tetrazolephenylethyl
495	OH	2-tert-butylamino-
L		sulfonylphenylethyl
496	OH	2-aminosulfonyl-phenylethyl
497	ОН	2-methoxyphenylethyl
498	OH	3-aminophenylethyl
499	OH	3-methylsulfonylamino-
"''	On	phenylethyl
500	OH	phenylechyl
300	On	trifluoromethylsulfonylamin
		o-phenylethyl
<u> </u>		1 0-buenArechAr

501	ОН	3-hydroxymethylene-	
502	ОН	phenylethyl 3-aminomethylene-	
502	On	phenylethyl	
503	OH	3-tetrazolephenylethyl	
504	ОН	3-tert-butylamino-	-
		sulfonylphenylethyl	
505	OH	3-aminosulfonyl-phenylethyl	
506	OH	3-methoxyphenylethyl	
507	NH (CO) CH ₃	Н	
508	NH (CO) CH ₃	methyl	
509	NH (CO) CH ₃	ethyl	
510	NH (CO) CH ₃	n-propyl	
511	NH (CO) CH ₃	n-butyl	
512	NH (CO) CH ₃	n-pentyl	
513	NH (CO) CH ₃	n-hexanyl	
514	NH (CO) CH ₃	n-heptanyl	
515	NH (CO) CH ₃	isopropyl	
516	NH (CO) CH ₃	tert-butyl	
517	NH (CO) CH ₃	cyclopropyl	
518	NH (CO) CH ₃	cyclobutanyl	
519	NH (CO) CH ₃	cyclpentanyl	-
520	NH (CO) CH ₃	cyclohexanyl	
521	NH (CO) CH ₃	cycloheptanyl	
522	NH (CO) CH ₃	phenyl	
523	NH (CO) CH ₃	phenylmethyl	
524	NH (CO) CH ₃	3-hydroxyphenyl	
525	NH (CO) CH ₃	3-hydroxy-4-methoxyphenyl	
526	NH (CO) CH ₃	3-fluorophenyl	
527	NH (CO) CH ₃	3-chlorophenyl	
528	NH (CO) CH ₃	3-nitrophenyl	
529	NH (CO) CH ₃	3-aminophenyl	
530	NH (CO) CH ₃	3-methyl-sulfonamidephenyl	
531	NH (CO) CH ₃	3-trifluoro-	
331	MI (CO/CII3	methylsulfonamidephenyl	
532	NH (CO) CH ₃	3-Ac-NHphenyl	
533	NH (CO) CH ₃	3-Boc-NHpheny1	
534	NH (CO) CH ₃	3-Cbz-NHphenyl	
535	NH (CO) CH ₃	3-aminomethylenephenyl	
536	NH (CO) CH ₃	3-aminoethylenephenyl	
537	NH (CO) CH ₃	3-cyanophenyl	
538	NH (CO) CH ₃	3-cyanomethylphenyl	
539	NH (CO) CH ₃	3-hydroxy-methylenephenyl	
540	NH (CO) CH ₃	3-carboxylphenyl	
541	NH (CO) CH ₃	3-mercaptophenyl	
542	NH (CO) CH ₃	3-methoxyphenyl	
543	NH (CO) CH ₃	3,4-methylenedioxophenyl	
544		3-tetrazolephenyl	
545	NH (CO) CH ₃	3-aminosulfonylphenyl	
	NH (CO) CH ₃	3-methylamino-	
546	NH (CO) CH ₃	sulfonylphenyl	
547	NH (CO) CH ₃	3-ethylamino-sulfonylphenyl	
548	NH (CO) CH ₃	3-tert-butylamino-	
340	111 (00) 0113	sulfonylphenyl	
549	NH (CO) CH3	3-methylsulfonylphenyl	
550	NH (CO) CH ₃	4-methoxyphenyl	
551	NH (CO) CH ₃	4-phenylphenyl	

		•	
552	NH (CO) CH ₃	(2-hydroxymethylene- phenyl)-phenyl	
553	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
553	NH (CO) CH ₃	(2-tert-butylamino- sufonylphenyl)-phenyl	
554	NH (CO) CH ₃	(2-methylamino-	
		sufonylphenyl)-phenyl	
555	NH (CO) CH ₃	(2-ethylamino-	
556	NT1 (CO) CU	sufonylphenyl)-phenyl	
556	NH (CO) CH ₃	(2-aminosufonyl-phenyl)- phenyl	
557	NH (CO) CH ₃	(2-chlorophenyl)-phenyl	
558	NH (CO) CH ₃	(2-fluorophenyl)-phenyl	
559	NH (CO) CH ₃	(2,4-dichlorophenyl)-phenyl	
560	NH (CO) CH ₃	(2,6-dichlorophenyl)-phenyl	
561	NH (CO) CH ₃	(3,5-dichlorophenyl)-phenyl	
562	NH (CO) CH ₃	(2,3-dichlorophenyl)-phenyl	
563	NH (CO) CH ₃	(2-methylphenyl)-phenyl	
564	NH (CO) CH ₃	(2-tetrazole-phenyl)-phenyl	
		(2-methoxy-phenyl)-phenyl	
565	NH (CO) CH ₃		
566	NH (CO) CH ₃	(2-tmethyl-phenyl)-phenyl	
567	NH (CO) CH ₃	(2-formyl-phenyl)-phenyl	
568	NH (CO) CH ₃	(2-amino-phenyl)-phenyl	
569	NH (CO) CH ₃	(2-methylamino-phenyl)- phenyl	
570	NH (CO) CH ₃	(2-ethylamino-phenyl)-	
	,	phenyl	
571	NH (CO) CH ₃	(2-propylamino-phenyl)-	,
		phenyl	
572	NH (CO) CH ₃	(2-methylsulfonylamino- phenyl)-phenyl	
573	NH (CO) CH ₃	(2-trifluoromethyl-	
		sulfonyl-amino-phenyl)-	
		phenyl	
574	NH (CO) CH ₃	(3-methylphenyl)-phenyl	
575	NH (CO) CH ₃	(3-isopropylphenyl)-phenyl	
576	NH (CO) CH ₃	(3-trifluoromethyl-	
		sulfonyl-amino-phenyl)- phenyl	
577	NH (CO) CH ₃	(3-methylsulfonylamino-	
377	1 (00 / 03	phenyl)-phenyl	
578	NH (CO) CH ₃	(3-amino-phenyl)-phenyl	
579	NH (CO) CH ₃	(3-nitro-phenyl)-phenyl	
580	NH (CO) CH ₃	2-pyridyl	
581	NH (CO) CH ₃	3-pyridyl	
582	NH (CO) CH ₃	4-pyridyl	
583	NH (CO) CH ₃	3-amino-4-pyridyl	
584	NH (CO) CH ₃	3-hydroxy-4-pyridyl	
585	NH (CO) CH ₃	3-imidazole	
586	NH (CO) CH ₃	2-nitro-3-imidazole	
587	NH (CO) CH ₃	5-thiazole	
588	NH (CO) CH ₃	5-oxazole	
589	NH (CO) CH ₃	4-pyazole	
590	NH (CO) CH ₃	phenylethyl	
591	NH (CO) CH ₃	2-aminophenylethyl	
592	NH (CO) CH ₃	2-methylsulfonylamino-	
	241. (00/01.3	phenylethyl	
593	NH (CO) CH ₃	2-	
		trifluoromethylsulfonylamin	
594	NH (CO) CH ₃	o-phenylethyl 2-hydroxymethylene-	

595	NT (CO) CU	2	
393	NH (CO) CH ₃	2-aminomethylene- phenylethyl	
596	NH (CO) CH ₃	2-tetrazolephenylethyl	
597	NH (CO) CH ₃	2-tert-butylamino-	
	1.11 (00, 0113	sulfonylphenylethyl	
598	NH (CO) CH ₃	2-aminosulfonyl-phenylethyl	
599	NH (CO) CH ₃	2-methoxyphenylethyl	
600	NH (CO) CH ₃	3-aminophenylethyl	
601	NH (CO) CH ₃	3-methylsulfonylamino-	
		phenylethyl	
602	NH (CO) CH ₃	3-trifluoromethyl-	
603	NH (CO) CH ₃	sulfonylamino-phenylethyl 3-hydroxymethylene-	
003	NH (CO)CH3	phenylethyl	
604	NH (CO) CH ₃	3-aminomethylene-	
		phenylethyl	
605	NH (CO) CH ₃	3-tetrazolephenylethyl	
606	NH (CO) CH ₃	3-tert-butylamino-	
		sulfonylphenylethyl	
607	NH (CO) CH ₃	3-aminosulfonyl-phenylethyl	
608	NH (CO) CH ₃	3-methoxyphenylethyl	
609			
610	NH (CO) C ₂ H ₅	Н	
611	NH (CO) C ₂ H ₅	methyl	
612	NH (CO) C ₂ H ₅	ethyl	
613	NH (CO) C ₂ H ₅	n-propyl	
614	NH (CO) C ₂ H ₅	n-butyl	
615	NH (CO) C ₂ H ₅	n-pentyl	
616	NH (CO) C ₂ H ₅	n-hexanyl	
617	NH (CO) C ₂ H ₅	n-heptanyl	
618	NH (CO) C ₂ H ₅	isopropyl	
619	NH (CO) C ₂ H ₅	tert-butyl	
620	NH (CO) C ₂ H ₅	cyclopropyl	
621	NH (CO) C ₂ H ₅	cyclobutanyl	
622	NH (CO) C ₂ H ₅	cyclpentanyl	
623	NH (CO) C ₂ H ₅	cyclohexanyl	
624	NH (CO) C ₂ H ₅	cycloheptanyl	
625	NH (CO) C ₂ H ₅	phenyl	
626	NH (CO) C ₂ H ₅	phenylmethyl	
627	NH (CO) C ₂ H ₅	3-hydroxyphenyl	
628	NH (CO) C ₂ H ₅	3-hydroxy-4-methoxyphenyl	
629	NH (CO) C ₂ H ₅	3-fluorophenyl	
630	NH (CO) C ₂ H ₅	3-chlorophenyl	
631	NH (CO) C ₂ H ₅	3-nitrophenyl	
632	NH (CO) C ₂ H ₅	3-aminophenyl	
633	NH (CO) C2H5	3-methylsulfonamidephenyl	
634	NH (CO) C ₂ H ₅	3-trifluoro-	
		methylsulfonamidephenyl	
635	NH (CO) C ₂ H ₅	3-Ac-NHphenyl	
636	NH (CO) C ₂ H ₅	3-Boc-NHphenyl	
637	NH (CO) C ₂ H ₅	3-Cbz-NHphenyl	
638	NH (CO) C ₂ H ₅	3-aminomethylenephenyl	
639	NH (CO) C ₂ H ₅	3-aminoethylenephenyl	
640	NH (CO) C ₂ H ₅	3-cyanophenyl	
641	NH (CO) C ₂ H ₅	3-cyanomethylphenyl	
642	NH (CO) C ₂ H ₅	3-hydroxymethylenephenyl	
643	NH (CO) C ₂ H ₅	3-carboxylphenyl	
644	NH (CO) C ₂ H ₅	3-mercaptophenyl	
645	NH (CO) C ₂ H ₅	3-methoxyphenyl	

646	NH(CO)C ₂ H ₅	3,4-methylenedioxophenyl	
647	NH (CO) C ₂ H ₅	3-tetrazolephenyl	
648	NH (CO) C ₂ H ₅	3-aminosulfonylphenyl	
649	NH(CO)C ₂ H ₅	3-methylamino-	
	NH (CO) C ₂ H ₅	sulfonylphenyl 3-ethylamino-sulfonylphenyl	
650 651	NH (CO) C ₂ H ₅	3-tert-butylamino-	
621	NA (CO) C ₂ A ₅	sulfonylphenyl	- 1
652	NH (CO) C2H5	3-methylsulfonylphenyl	
653	NH (CO) C ₂ H ₅	4-methoxyphenyl	
654	NH (CO) C ₂ H ₅	4-phenylphenyl	
655	NH (CO) C ₂ H ₅	4-(2-hydroxymethylene- phenyl)-phenyl	
656	NH (CO) C ₂ H ₅	4-(2-tert-butylamino- sufonylphenyl)-phenyl	
657	NH (CO) C ₂ H ₅	4-(2-methylamino- sufonylphenyl)-phenyl	
658	NH (CO) C ₂ H ₅	4-(2-ethylamino- sufonylphenyl)-phenyl	
659	NH (CO) C ₂ H ₅	4-(2-aminosufonyl-phenyl)- phenyl	
660	NH (CO) C ₂ H ₅	4-(2-chlorophenyl)-phenyl	
661	NH (CO) C ₂ H ₅	4-(2-fluorophenyl)-phenyl	
662	NH (CO) C ₂ H ₅	4-(2,4-dichlorophenyl)- phenyl	
663	NH (CO) C2H5	4-(2,6-dichlorophenyl)- phenyl	
664	NH (CO) C ₂ H ₅	4-(3,5-dichlorophenyl)- phenyl	
665	NH (CO) C ₂ H ₅	4-(2,3-dichlorophenyl)- phenyl	
666	NH (CO) C2H5	4-(2-methylphenyl)-phenyl	
667	NH (CO) C ₂ H ₅	4-(2-tetrazole-phenyl)- phenyl	
668	NH (CO) C2H5	4-(2-methoxy-phenyl)-phenyl	
669	NH (CO) C ₂ H ₅	4-(2-tmethyl-phenyl)-phenyl	
670	NH (CO) C ₂ H ₅	4-(2-formyl-phenyl)-phenyl	
671	NH (CO) C ₂ H ₅	4-(2-amino-phenyl)-phenyl	
672	NH (CO) C ₂ H ₅	4-(2-methylamino-phenyl)- phenyl	
673	NH (CO) C ₂ H ₅	4-(2-ethylamino-phenyl)- phenyl	
674	NH (CO) C ₂ H ₅	4-(2-propylamino-phenyl)- phenyl	
675	NH (CO) C ₂ H ₅	4-(2-methylsulfonylamino- phenyl)-phenyl	
676	NH (CO) C ₂ H ₅	4-(2- trifluoromethylsulfonyl- amino-phenyl)-phenyl	
677	NH (CO) C ₂ H ₅	4-(3-methylphenyl)-phenyl	-
678	NH (CO) C ₂ H ₅	4-(3-isopropylphenyl)- phenyl	
679	NH (CO) C ₂ H ₅	4-(3- trifluoromethylsulfonyl- amino-phenyl)-phenyl	
680	NH (CO) C ₂ H ₅	4-(3-methylsulfonylamino- phenyl)-phenyl	
681	NH (CO) C ₂ H ₅	4-(3-amino-phenyl)-phenyl	
682	NH (CO) C ₂ H ₅	4-(3-nitro-phenyl)-phenyl	
683	NH (CO) C2H5	2-pyridyl	
684	NH (CO) C ₂ H ₅	3-pyridyl	
685	NH (CO) C ₂ H ₅	4-pyridyl	

686	NH (CO) C ₂ H ₅	3-amino-4-pyridyl
687	NH (CO) C ₂ H ₅	3-hydroxy-4-pyridyl
688	NH (CO) C ₂ H ₅	3-imidazole
689	NH (CO) C ₂ H ₅	2-nitro-3-imidazole
690	NH (CO) C ₂ H ₅	5-thiazole ·
691	NH (CO) C ₂ H ₅	5-oxazole
692	NH (CO) C ₂ H ₅	4-pyazole
693	NH (CO) C ₂ H ₅	phenylethyl
694	NH (CO) C ₂ H ₅	2-aminophenylethyl
695	NH (CO) C ₂ H ₅	2-methylsulfonylamino- phenylethyl
696	NH (CO) C ₂ H ₅	2- trifluoromethylsulfonylamin o-phenylethyl
697	NH (CO) C ₂ H ₅	2-hydroxymethylene- phenylethyl
698	NH (CO) C ₂ H ₅	2-aminomethylene- phenylethyl
699	NH (CO) C ₂ H ₅	2-tetrazolephenylethyl
700	NH (CO) C ₂ H ₅	2-tert-butylamino-
		sulfonylphenylethyl
701	NH (CO) C ₂ H ₅	2-aminosulfonyl-phenylethyl
702	NH (CO) C ₂ H ₅	2-methoxyphenylethyl
703	NH (CO) C ₂ H ₅	3-aminophenylethyl
704	NH (CO) C ₂ H ₅	3-methylsulfonylamino- phenylethyl
705	NH (CO) C ₂ H ₅	3- trifluoromethylsulfonylamin o-phenylethyl
706	NH (CO) C ₂ H ₅	3-hydroxymethylene- phenylethyl
707	NH (CO) C ₂ H ₅	3-aminomethylene- phenylethyl
708	NH (CO) C ₂ H ₅	3-tetrazolephenylethyl
709	NH (CO) C ₂ H ₅	3-tert-butylamino- sulfonylphenylethyl
710	NH (CO) C ₂ H ₅	3-aminosulfonyl-phenylethyl
711	NH (CO) C ₂ H ₅	3-methoxyphenylethyl
712	NH (CO) OC2H ₅	H
713	NH (CO) OC ₂ H ₅	methyl
714	NH (CO) OC ₂ H ₅	ethyl
715	NH (CO) OC ₂ H ₅	n-propyl
716	NH (CO) OC ₂ H ₅	n-butyl
717	NH (CO) OC ₂ H ₅	n-pentyl
718	NH (CO) OC ₂ H ₅	n-hexanyl
719	NH (CO) OC2H5	n-heptanyl
720	NH (CO) OC ₂ H ₅	isopropyl
721	NH (CO) OC ₂ H ₅	tert-butyl
722	NH (CO) OC ₂ H ₅	cyclopropyl
723	NH (CO) OC ₂ H ₅	cyclobutanyl
724	NH (CO) OC ₂ H ₅	cyclpentanyl
725	NH (CO) OC ₂ H ₅	cyclohexanyl
726	NH (CO) OC ₂ H ₅	cycloheptanyl
727	NH (CO) OC ₂ H ₅	phenyl
728	NH (CO) OC ₂ H ₅	phenylmethyl
729	NH (CO) OC ₂ H ₅	3-hydroxyphenyl
730	NH (CO) OC ₂ H ₅	3-hydroxy-4-methoxyphenyl
731	NH (CO) OC ₂ H ₅	3-fluorophenyl
732	NH (CO) OC ₂ H ₅	3-chlorophenyl
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733	NH (CO) OC ₂ H ₅	3-nitrophenyl
734	NH (CO) OC ₂ H ₅	3-aminophenyl
735	NH (CO) OC ₂ H ₅	3-methyl-sulfonamidephenyl
736	NH (CO) OC ₂ H ₅	3-trifluoro-
,,,,		methylsulfonamidephenyl
737	NH (CO) OC ₂ H ₅	3-Ac-NHphenyl
738	NH (CO) OC ₂ H ₅	3-Boc-NHphenyl
739	NH (CO) OC ₂ H ₅	3-Cbz-NHphenyl
740	NH (CO) OC ₂ H ₅	3-aminomethylenephenyl
741	NH (CO) OC ₂ H ₅	3-aminoethylenephenyl
742	NH (CO) OC ₂ H ₅	3-cyanophenyl
743	NH (CO) OC ₂ H ₅	3-cyanomethylphenyl
744	NH (CO) OC ₂ H ₅	3-hydroxy-methylenephenyl
745	NH (CO) OC ₂ H ₅	3-carboxylphenyl
746	NH (CO) OC ₂ H ₅	3-mercaptophenyl
747	. NH (CO) OC ₂ H ₅	3-methoxyphenyl
748	NH (CO) OC ₂ H ₅	3,4-methylenedioxophenyl
749	NH (CO) OC ₂ H ₅	3-tetrazolephenyl
750	NH (CO) OC ₂ H ₅	3-aminosulfonylphenyl
751	NH (CO) OC ₂ H ₅	3-methylamino-
		sulfonylphenyl
752	NH (CO) OC ₂ H ₅	3-ethylamino-sulfonylphenyl
753	NH (CO) OC ₂ H ₅	3-tert-butylamino- sulfonylphenyl
754	NU (CO) OC. U	3-methylsulfonylphenyl
755	NH (CO) OC ₂ H ₅ NH (CO) OC ₂ H ₅	4-methoxyphenyl
756	NH (CO) OC ₂ H ₅	4-phenylphenyl
757		4-(2-hydroxymethylene-
/5/	NH (CO) OC ₂ H ₅	phenyl)-phenyl
758	NH (CO) OC ₂ H ₅	4-(2-tert-butylamino-
		sufonylphenyl)-phenyl
759	NH (CO) OC ₂ H ₅	4-(2-methylamino-
	NT1 (CO) OC II	sufonylphenyl)-phenyl 4-(2-ethylamino-
760	NH (CO) OC ₂ H ₅	sufonylphenyl)-phenyl
761	NH (CO) OC ₂ H ₅	4-(2-aminosufonyl-phenyl)-
	2	phenyl
762	NH (CO) OC ₂ H ₅	4-(2-chlorophenyl)-phenyl
763	NH (CO) OC ₂ H ₅	4-(2-fluorophenyl)-phenyl
764	NH (CO) OC ₂ H ₅	4-(2,4-dichlorophenyl)-
		phenyl 4-(2,6-dichlorophenyl)-
765	NH (CO) OC ₂ H ₅	4-(2,6-dichiorophenyl)- phenyl
766	NH (CO) OC ₂ H ₅	4-(3,5-dichlorophenyl)-
/ 00	1411 (607 062115	phenyl
767	NH (CO) OC ₂ H ₅	4-(2,3-dichlorophenyl)-
		phenyl
768	NH (CO) OC ₂ H ₅	4-(2-methylphenyl)-phenyl
769	NH (CO) OC ₂ H ₅	4-(2-tetrazole-phenyl)-
770	NU (CO) OC- U-	phenyl 4-(2-methoxy-phenyl)-phenyl
770 771	NH (CO) OC ₂ H ₅ NH (CO) OC ₂ H ₅	4-(2-methoxy-phenyl)-phenyl 4-(2-tmethyl-phenyl)-phenyl
772		4-(2-formyl-phenyl)-phenyl
	NH (CO) OC ₂ H ₅	4-(2-iormyi-phenyi)-phenyi 4-(2-amino-phenyi)-phenyi
773	NH (CO) OC ₂ H ₅	4-(2-amino-phenyi)- 4-(2-methylamino-phenyi)-
774	NH (CO) OC ₂ H ₅	4-(2-methylamino-phenyl)-
775	NH (CO) OC ₂ H ₅	4-(2-ethylamino-phenyl)-
'''		phenyl
776	NH (CO) OC ₂ H ₅	4-(2-propylamino-phenyl)-
1		phenyl

Phenyll - phenyl 4 - (2				
778	777	NH (CO) OC ₂ H ₅	4-(2-methylsulfonylamino-	
trifluoromethylsulfonyl- amino-phenyl-phenyl 780	770	NTL (CO) OC- H-		
mino-phenyl)-phenyl	''°	NH (CO) OC2H5		
779				
780	779	NH (CO) OC ₂ H ₅	4-(3-methylphenyl)-phenyl	•
The color The				
Trifluoromethylsulfonyl-amino-phenyl-phenyl-amino-phenyl-phenyl-phenyl-			phenyl	
	781	NH (CO) OC ₂ H ₅		
782			trifluoromethylsulfonyl-	I
phenyll -phenyl				
783	782	NH (CO) OC ₂ H ₅	4-(3-methylsulfonylamino-	
784	703	M1/CO/OC N	pneny1/=pneny1	
785				
786				
787				
788				
789				
790	788	NH (CO) OC ₂ H ₅		
Type	789	NH (CO) OC ₂ H ₅		
The colon	790	NH (CO) OC ₂ H ₅		
792	791	NH (CO) OC ₂ H ₅	2-nitro-3-imidazole	
793			5-thiazole	
794			5-oxazole	
Type			4-pyazole	
Type				
Top				
Phenylethyl 2-				
Type	'9'	NH (CO) OC2H5		
Trifluoromethylsulfonylamin o-phenylethyl 2-hydroxymethylene-phenylethyl 2-hydroxymethylene-phenylethyl 2-aminomethylene-phenylethyl 800 NH(CO)OC2H5 2-aminomethylene-phenylethyl 801 NH(CO)OC2H5 2-tetrazolephenylethyl 802 NH(CO)OC2H5 2-tetrazolephenylethyl 803 NH(CO)OC2H5 2-aminosulfonylphenylethyl 804 NH(CO)OC2H5 2-methoxyphenylethyl 805 NH(CO)OC2H5 3-aminophenylethyl 806 NH(CO)OC2H5 3-aminophenylethyl 807 NH(CO)OC2H5 3-trifluoromethylsulfonylamino-phenylethyl 3-trifluoromethylsulfonylamino-phenylethyl 808 NH(CO)OC2H5 3-hydroxymethylene-phenylethyl 809 NH(CO)OC2H5 3-aminomethylene-phenylethyl 810 NH(CO)OC2H5 3-tetrazolephenylethyl 811 NH(CO)OC2H5 3-tetrazolephenylethyl 812 NH(CO)OC2H5 3-tetrazolephenylethyl 813 NH(CO)OC2H5 3-aminosulfonyl-phenylethyl 814 NH(CO)OCH5 3-methoxyphenylethyl 815 NH(CO)OCH3 methyl 816 NH(CO)OCH3 methyl 817 NH(CO)OCH3 n-propyl 817	798	NH (CO) OC ₂ H _E	2-	
NH (CO) OC2H5 2-hydroxymethylene-phenylethyl 2-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminophenylethyl 3-aminomethylene-phenylethyl 3-amino	',"	2.03 (00, 002.05	trifluoromethylsulfonylamin	
Solution			o-phenylethyl	
S00	799	NH (CO) OC ₂ H ₅		
Solition			phenyletnyl	
801	800	NH (CO) OC ₂ H ₅		
NH (CO) OC2H5 2-tert-butylamino-sulfonylphenylethyl	001	NII (CO) OC H-		
Sulfonylphenylethyl				
803	802	NH (CO) OC2H5	sulfonvlphenvlethvl	
804 NH (CO) OC2H5 2-methoxyphenylethyl 805 NH (CO) OC2H5 3-aminophenylethyl 806 NH (CO) OC2H5 3-methylsulfonylaminophenylethyl 807 NH (CO) OC2H5 3-trifluoromethylsulfonylaminophenylethyl 808 NH (CO) OC2H5 3-hydroxymethylenephenylethyl 809 NH (CO) OC2H5 3-aminomethylenephenylethyl 810 NH (CO) OC2H5 3-tetrazolephenylethyl 811 NH (CO) OC2H5 3-tert-butylaminosulfonylphenylethyl 812 NH (CO) OC2H5 3-aminosulfonyl-phenylethyl 813 NH (CO) OC2H5 3-methoxyphenylethyl 814 NH (CO) OCH3 H 815 NH (CO) OCH3 methyl 816 NH (CO) OCH3 n-propyl 817 NH (CO) OCH3 n-propyl	803	NH (CO) OC2H5	2-aminosulfonyl-phenylethyl	
805				
806				
Solution				
807	800	NA (CO) OC2115		
Methylsulfonylamino-phenylethyl	807	NH (CO) OC2H5	3-trifluoro-	
808 NH (CO) OC2H5 3-hydroxymethylene-phenylethyl 809 NH (CO) OC2H5 3-aminomethylene-phenylethyl 810 NH (CO) OC2H5 3-tetrazolephenylethyl 811 NH (CO) OC2H5 3-tert-butylamino-sulfonylphenylethyl 812 NH (CO) OC2H5 3-aminosulfonyl-phenylethyl 813 NH (CO) OC2H5 3-methoxyphenylethyl 814 NH (CO) OCH3 H 815 NH (CO) OCH3 methyl 816 NH (CO) OCH3 ethyl 817 NH (CO) OCH3 n-propyl	""	2.02 (2.2 , 2.2 2.2 3		
Phenylethyl				
809 NH (CO) OC2H5 3-aminomethylene-phenylethyl 810 NH (CO) OC2H5 3-tetrazolephenylethyl 811 NH (CO) OC2H5 3-tert-butylamino-sulfonylphenylethyl 812 NH (CO) OC2H5 3-aminosulfonyl-phenylethyl 813 NH (CO) OC2H5 3-methoxyphenylethyl 814 NH (CO) OCH3 H 815 NH (CO) OCH3 methyl 816 NH (CO) OCH3 ethyl 817 NH (CO) OCH3 n-propyl	808	NH (CO) OC ₂ H ₅	3-hydroxymethylene-	
Phenylethyl				
810 NH (CO) OC2H5 3-tetrazolephenylethyl 811 NH (CO) OC2H5 3-tert-butylamino-sulfonylphenylethyl 812 NH (CO) OC2H5 3-aminosulfonyl-phenylethyl 813 NH (CO) OC2H5 3-methoxyphenylethyl 814 NH (CO) OCH3 H 815 NH (CO) OCH3 methyl 816 NH (CO) OCH3 ethyl 817 NH (CO) OCH3 n-propyl	809	NH (CO) OC_2H_5		
811 NH (CO) OC2H5 3-tert-butylamino-sulfonylphenylethyl 812 NH (CO) OC2H5 3-aminosulfonyl-phenylethyl 813 NH (CO) OC2H5 3-methoxyphenylethyl 814 NH (CO) OCH3 H 815 NH (CO) OCH3 methyl 816 NH (CO) OCH3 ethyl 817 NH (CO) OCH3 n-propyl	-	, , , , , , , , , , , , , , , , , , ,		
sulfonylphenylethyl 812 NH (CO) OC2H5 3-aminosulfonyl-phenylethyl 813 NH (CO) OC2H5 3-methoxyphenylethyl 814 NH (CO) OCH3 H 815 NH (CO) OCH3 methyl 816 NH (CO) OCH3 ethyl 817 NH (CO) OCH3 n-propyl				·
812 NH (CO) OC2H5 3-aminosulfonyl-phenylethyl 813 NH (CO) OC2H5 3-methoxyphenylethyl 814 NH (CO) OCH3 H 815 NH (CO) OCH3 methyl 816 NH (CO) OCH3 ethyl 817 NH (CO) OCH3 n-propyl	811	NH (CO) OC ₂ H ₅		
813 NH (CO) OC2H5 3-methoxyphenylethyl 814 NH (CO) OCH3 H 815 NH (CO) OCH3 methyl 816 NH (CO) OCH3 ethyl 817 NH (CO) OCH3 n-propyl	912	NH (CO) OC-H-		
814 NH (CO) OCH3 H 815 NH (CO) OCH3 methyl 816 NH (CO) OCH3 ethyl 817 NH (CO) OCH3 n-propyl				
815 NH (CO) OCH ₃ methyl				
816 NH (CO) OCH3 ethyl 817 NH (CO) OCH3 n-propyl				
817 NH(CO)OCH ₃ n-propyl				
I 818 I NH (CO) OCH ₂ I n-butvl				
200 100 100 100 100 100 100 100 100 100	818	NH (CO) OCH ₃	n-butyl	

819	NH (CO) OCH ₃	n-pentyl	
820	NH (CO) OCH ₃	n-hexanyl	
821	NH (CO) OCH3	n-heptanyl	
822	NH (CO) OCH3	isopropyl	
823	NH (CO) OCH ₃	tert-butyl	
824	NH (CO) OCH3	cyclopropyl	
825	NH (CO) OCH ₃	cyclobutanyl	
826	NH (CO) OCH ₃	cyclpentanyl	
827	NH (CO) OCH3	cyclohexanyl	
828	NH (CO) OCH3	cycloheptanyl	
829	NH (CO) OCH ₃	phenyl	
830	NH (CO) OCH ₃	phenylmethyl	
831	NH (CO) OCH ₃	3-hydroxyphenyl	
832	NH (CO) OCH ₃	3-hydroxy-4-methoxyphenyl	
833	NH (CO) OCH ₃	3-fluorophenyl	
834	NH (CO) OCH3	3-chlorophenyl	
835	NH (CO) OCH3	3-nitrophenyl	
836	NH (CO) OCH3	3-aminophenyl	
837	NH (CO) OCH3	3-methy-lsulfonamidephenyl	
838	NH (CO) OCH ₃	3-trifluoro-	
	17.700 2001	methylsulfonamidephenyl	
839	NH (CO) OCH ₃	3-Ac-NHphenyl	
840	NH (CO) OCH ₃	3-Boc-NHphenyl	
841	NH (CO) OCH ₃	3-Cbz-NHphenyl	
842	NH (CO) OCH ₃	3-aminomethylenephenyl	
843	NH (CO) OCH ₃	3-aminoethylenephenyl	
844	NH (CO) OCH ₃	3-cyanophenyl	
845	NH (CO) OCH ₃	3-cyanomethylphenyl	
846	NH (CO) OCH ₃	3-hydroxy-methylenephenyl	
847	NH (CO) OCH ₃	3-carboxylphenyl 3-mercaptophenyl	
848	NH (CO) OCH	3-mercaptopheny1	
849 850	NH (CO) OCH ₃	3,4-methylenedioxophenyl	
851	NH (CO) OCH ₃	3-tetrazolephenyl	
852	NH (CO) OCH ₃	3-aminosulfonylphenyl	
853	NH (CO) OCH ₃	3-methylamino-	
853	NA (CO) OCH3	sulfonylphenyl	
854	NH (CO) OCH3	3-ethylamino-sulfonylphenyl	
855	NH (CO) OCH ₃	3-tert-butylamino-	
		sulfonylphenyl	
856	NH (CO) OCH3	3-methylsulfonylphenyl	
857	NH (CO) OCH ₃	4-methoxyphenyl	
858	NH (CO) OCH ₃	4-phenylphenyl	
859	NH (CO) OCH ₃	4-(2-hydroxymethylene-	
860	NH (CO) OCH3	phenyl)-phenyl 4-(2-tert-butylamino-	
***	NA (CO) OCH3	sufonylphenyl)-phenyl	5
861	NH (CO) OCH ₃	4-(2-methylamino-	
	. , , , ,	sufonylphenyl)-phenyl	
862	NH (CO) OCH ₃	4-(2-ethylamino-	
063	NTI (CC) CCII	sufonylphenyl)-phenyl	
863	NH (CO) OCH ₃	4-(2-aminosufonyl-phenyl)- phenyl	
864	NH (CO) OCH ₃	4-(2-chlorophenyl)-phenyl	
865	NH (CO) OCH ₃	4-(2-fluorophenyl)-phenyl	
866	NH (CO) OCH ₃	4-(2,4-dichlorophenyl)-	
		phenyl	
867	NH (CO) OCH ₃	4-(2,6-dichlorophenyl)-	
		phenyl	

868	NH (CO) OCH ₃	4-(3,5-dichlorophenyl)- phenyl
869	NH (CO) OCH3	4-(2,3-dichlorophenyl)- phenyl
870	NH (CO) OCH ₃	4-(2-methylphenyl)-phenyl
871	NH (CO) OCH ₃	4-(2-tetrazole-phenyl)-
,	2(00,001.3	phenyl
872	NH (CO) OCH ₃	4-(2-methoxy-phenyl)-phenyl
873	NH (CO) OCH ₃	4-(2-tmethyl-phenyl)-phenyl
874	NH (CO) OCH ₃	4-(2-formyl-phenyl)-phenyl
875	NH (CO) OCH3	4-(2-amino-phenyl)-phenyl
876	NH (CO) OCH ₃	4-(2-methylamino-phenyl)-
		phenyl
877	NH (CO) OCH ₃	4-(2-ethylamino-phenyl)- phenyl
878	NH (CO) OCH ₃	4-(2-propylamino-phenyl)- phenyl
879	NH (CO) OCH₃	4-(2-methylsulfonylamino- phenyl)-phenyl
880	NH (CO) OCH ₃	4-(2-
	•	trifluoromethylsulfonyl-
221		amino-phenyl)-phenyl
881	NH (CO) OCH ₃	4-(3-methylphenyl)-phenyl
882	NH (CO) OCH ₃	4-(3-isopropylphenyl)- phenyl
883	NH (CO) OCH ₃	4-(3-
		trifluoromethylsulfonyl-
		amino-phenyl)-phenyl
884	NH (CO) OCH ₃	4-(3-methylsulfonylamino-
885	NII (CO) OCH	phenyl)-phenyl 4-(3-amino-phenyl)-phenyl
	NH (CO) OCH ₃	
886	NH (CO) OCH ₃	4-(3-nitro-phenyl)-phenyl
887	NH (CO) OCH ₃	2-pyridyl
888	NH (CO) OCH ₃	3-pyridyl
889	NH (CO) OCH ₃	4-pyridyl
890	NH (CO) OCH ₃	3-amino-4-pyridyl
891	NH (CO) OCH ₃	3-hydroxy-4-pyridyl
892	NH (CO) OCH ₃	3-imidazole
893	NH (CO) OCH3	2-nitro-3-imidazole
894	NH (CO) OCH ₃	5-thiazole
895	NH (CO) OCH ₃	5-oxazole
896	NH (CO)OCH3	4-pyazole
897	NH (CO) OCH ₃	phenylethyl
898	NH (CO) OCH ₃	2-aminophenylethyl
899	NH (CO) OCH ₃	2-methylsulfonylamino- phenylethyl
900	NH (CO) OCH3	2- trifluoromethylsulfonylamin ophenylethyl
901	• NH (CO) OCH3	2-hydroxymethylene- phenylethyl
902	NH (CO) OCH ₃	2-aminomethylene- phenylethyl
903	NH (CO) OCH3	2-tetrazolephenylethyl
904	NH (CO) OCH ₃	2-tert-butylamino- sulfonylphenylethyl
905	NH (CO) OCH ₃	2-aminosulfonyl-phenylethyl
906	NH (CO) OCH ₃	2-methoxyphenylethyl
907	NH (CO) OCH ₃	3-aminophenylethyl
908	NH (CO) OCH ₃	3-methylsulfonylamino-
	,,	phenylethyl

909	NTL (CO) OCU	3 mil61	
909	NH (CO) OCH ₃	3-trifluoromethyl-	
910	NH (CO) OCH3	sulfonylamino-phenylethyl	
910	NA (CO) OCA3	3-hydroxymethylene- phenylethyl	
911	NH (CO) OCH ₃	3-aminomethylene-	
111	NA (CO) OCA3	phenylethyl	
912	NH (CO) OCH3	3-tetrazolephenylethyl	
913	NH (CO) OCH ₃	3-tert-butylamino-	
913	NA (CO) OCH3	sulfonylphenylethyl	
914	NH (CO) OCH ₃	3-aminosulfonyl-phenylethyl	
915			
I	NH (CO) OCH ₃	3-methoxyphenylethyl	
916	NHBoc	H	
917	NHBoc	methyl	
918	NHBoc	ethyl	
919	NHBoc	n-propyl	
920	NHBoc	n-butyl	
921	NHBoc	n-pentyl	
922 923	NHBoc	n-hexanyl	
	NHBoc	n-heptanyl	
924	NHBoc NHBoc	isopropyl	
925 926		tert-butyl	
	NHBoc	cyclopropyl	
927	NHBoc	cyclobutanyl	
928	NHBoc	cyclpentanyl	
	NHBoc	cyclohexanyl	
930	NHBoc NHBoc	cycloheptanyl	
932		phenyl	
932	NHBoc NHBoc	phenylmethyl 3-hydroxyphenyl	
934			
	NHBoc	3-hydroxy-4-methoxyphenyl	
935	NHBoc NHBoc	3-fluorophenyl 3-chlorophenyl	
937	NHBoc .	3-chiorophenyl 3-nitrophenyl	
938	NHBoc	3-minophenyl	
939	NHBoc	3-methyl-sulfonamidephenyl	
940	NHBoc	3-trifluoro-	
340	NABOC	methylsulfonamidephenyl	
941	NHBoc	3-Ac-NHphenyl	
942	NHBoc	3-Boc-NHphenyl	
943	NHBoc	3-Cbz-NHphenyl	
944	NHBoc	3-aminomethylenephenyl	
945	NHBoc	3-aminoethylenephenyl	
946	NHBoc	3-cyanophenyl	
947	NHBoc	3-cyanomethylphenyl	
948	NHBoc	3-hydroxymethylenephenyl	
949	NHBoc	3-carboxylphenyl	
950	NHBoc	3-mercaptophenyl	
951	NHBoc	3-methoxyphenyl	
952	NHBoc	3,4-methylenedioxophenyl	
953	NHBoc	3-tetrazolephenyl	
954	NHBoc	3-aminosulfonylphenyl	
955	NHBoc	3-methylamino-	
		sulfonylphenyl	
956	NHBoc	3-ethylamino-sulfonylphenyl	
957	NHBoc	3-tert-butylamino-	
		sulfonylphenyl	
958	NHBoc	3-methylsulfonylphenyl	
959	NHBoc	4-methoxyphenyl	
960	NHBoc	4-phenylphenyl	
961	NHBoc	4-(2-hydroxymethylene-	
		phenyl) -phenyl_	
962	NHBoc	4-(2-tert-butylamino-	
		sufonylphenyl)-phenyl	

963	NHBoc	4-(2-methylamino-	
303	NABOC	sufonylphenyl)-phenyl	
964	NHBoc	4-(2-ethylamino-	
		sufonylphenyl)-phenyl	
965	NHBoc	4-(2-aminosufonyl-phenyl)-	
966	NHBoc	phenyl 4-(2-chlorophenyl)-phenyl	
967	NHBoc	4-(2-fluorophenyl)-phenyl	
968	NHBoc	4-(2,4-dichlorophenyl)-	
		phenyl	
969	NHBoc	4-(2,6-dichlorophenyl)- phenyl	
970	NHBoc	4-(3,5-dichlorophenyl)-	
		phenyl	
971	NHBoc	4-(2,3-dichlorophenyl)-	
1000		phenyl	
972 973	NHBoc NHBoc	4-(2-methylphenyl)-phenyl 4-(2-tetrazole-phenyl)-	
9/3	NADOC	phenyl	
974	NHBoc	4-(2-methoxy-phenyl)-phenyl	
975	NHBoc	4-(2-tmethyl-phenyl)-phenyl	
976	NHBoc	4-(2-formyl-phenyl)-phenyl	
977	· NHBoc	4-(2-amino-phenyl)-phenyl	
978	NHBoc	4-(2-methylamino-phenyl)-	
979	NHBoc	phenyl 4-(2-ethylamino-phenyl)-	
3/3	NABOC	phenyl	
980	NHBoc	4-(2-propylamino-phenyl)-	
		phenyl	
981	NHBoc	4-(2-methylsulfonylamino-	
982	NHBoc	phenyl)-phenyl 4-(2-	
982	NABOC	trifluoromethylsulfonyl-	
		amino-phenyl)-phenyl	
983	NHBoc	4-(3-methylphenyl)-phenyl	
984	NHBoc	4-(3-isopropylphenyl)-	
985	NHBoc	phenyl 4-(3-	
365	NABOC	trifluoromethylsulfonyl-	İ
		amino-phenyl)-phenyl	
986	NHBoc	4-(3-methylsulfonylamino-	
		phenyl)-phenyl	
987	NHBoc	4-(3-amino-phenyl)-phenyl	
988	NHBoc	4-(3-nitro-phenyl)-phenyl	
989	NHBoc NHBoc	2-pyridyl 3-pyridyl	
991	NHBoc	4-pyridyl	
992	NHBoc	3-amino-4-pyridyl	
993	NHBoc	3-hydroxy-4-pyridyl	
994	NHBoc	3-imidazole	
995	NHBoc	2-nitro-3-imidazole	
996	NHBoc	5-thiazole	
997	NHBoc	5-oxazole	
998	NHBoc	4-pyazole	
1000	NHBoc NHBoc	phenylethyl 2-aminophenylethyl	
1000	NHB0C	2-methylsulfonylamino-	
	111.500	phenylethyl	
1002	NHBoc	2-	
		trifluoromethylsulfonylamin	
1000		o-phenylethyl	
1003	NHBoc	2-hydroxymethylene- phenylethyl	
1004	NHBoc	2-aminomethylene-	
		phenylethyl	
		pnenylethyl	

1005	NHBoc	2-tetrazolephenylethyl	
1005	NHBoc	2-tert-butylamino-	\neg
1000	III.DOG	sulfonylphenylethyl	ŀ
1007	NHBoc	2-aminosulfonyl-phenylethyl	
1008	NHBoc	2-methoxyphenylethyl	
1009	NHBoc	3-aminophenylethyl	
1010	NHBoc	3-methylsulfonylamino-	
		phenylethyl	
1011	NHBoc	3-	
		trifluoromethylsulfonylamin o-phenylethyl	
1012	NHBoc	3-hydroxymethylene-	
1012	MABOC	phenylethyl	
1013	NHBoc	3-aminomethylene-	
	255	phenylethyl	
1014	NHBoc	3-tetrazolephenylethyl	
1015	NHBoc	3-tert-butylamino-	
		sulfonylphenylethyl	
1016	/ NHBoc	3-aminosulfonyl-phenylethyl	
1017	NHBoc	3-methoxyphenylethyl	
1018	NH (CO) OCH ₂ -4-pyridyl	Н	
1019	NH(CO)OCH ₂ -4-pyridyl	methyl	
1020	NH(CO)OCH2-4-pyridyl	ethyl	
1021	NH(CO)OCH2-4-pyridyl	n-propyl	
1022	NH(CO)OCH2-4-pyridyl	n-butyl	
1023	NH(CO)OCH2-4-pyridyl	n-pentyl	
1024	NH(CO)OCH2-4-pyridyl	n-hexanyl	
1025	NH(CO)OCH2-4-pyridyl	n-heptanyl	
1026	$NH(CO)OCH_2-4-pyridyl$	isopropyl	
1027	NH(CO)OCH2-4-pyridyl	tert-butyl	
1028	NH(CO)OCH2-4-pyridyl	cyclopropyl	
1029	NH(CO)OCH2-4-pyridyl	cyclobutanyl	
1030	NH(CO)OCH2-4-pyridyl	cyclpentanyl	
1031	NH(CO)OCH2-4-pyridyl	cyclohexanyl	
1032	NH(CO)OCH2-4-pyridyl	cycloheptanyl	
1033	NH(CO)OCH2-4-pyridyl	phenyl .	
1034	NH(CO)OCH2-4-pyridyl	phenylmethyl	
1035	NH(CO)OCH2-4-pyridyl	3-hydroxyphenyl	
1036	NH(CO)OCH2-4-pyridyl	3-hydroxy-4-methoxyphenyl	
1037	NH(CO)OCH2-4-pyridyl	3-fluorophenyl	
1038	NH(CO)OCH2-4-pyridyl	3-chlorophenyl	
1039	NH(CO)OCH2-4-pyridyl	3-nitrophenyl	
1040	NH(CO)OCH2-4-pyridyl	3-aminophenyl	
1041	NH(CO)OCH2-4-pyridyl	3-methyl-sulfonamidephenyl	
1042	NH(CO)OCH2-4-pyridyl	3-trifluoro-	
		methylsulfonamidephenyl	
1043	NH(CO)OCH ₂ -4-pyridyl	3-Ac-NHphenyl	
1044	NH(CO)OCH2-4-pyridyl	3-Boc-NHphenyl	
1045	NH(CO)OCH ₂ -4-pyridyl	3-Cbz-NHphenyl	
1046	NH(CO)OCH2-4-pyridyl	3-aminomethylenephenyl	
1047	NH(CO)OCH2-4-pyridyl	3-aminoethylenephenyl	
1048	NH(CO)OCH2-4-pyridyl	-3-cyanophenyl	
1049	NH(CO)OCH2-4-pyridyl	3-cyanomethylphenyl	
1050	NH(CO)OCH2-4-pyridyl	3-hydroxymethylenephenyl	
1051	NH(CO)OCH2-4-pyridyl	3-carboxylphenyl	
1052	NH(CO)OCH2-4-pyridyl	3-mercaptophenyl	************
1053	NH (CO) OCH ₂ -4-pyridyl	3-methoxyphenyl	-
1054	NH(CO)OCH ₂ -4-pyridyl	3,4-methylenedioxophenyl	
1055	NH (CO) OCH ₂ -4-pyridyl	3-tetrazolephenyl	
	I III (CO, CO I PIII WII		

1056	NH(CO)OCH2-4-pyridyl	3-aminosulfonylphenyl	
1057	NH(CO)OCH2-4-pyridyl	3-methylamino-	
		sulfonylphenyl	
1058	NH(CO)OCH2-4-pyridyl	3-ethylamino-sulfonylphenyl	
1059	NH(CO)OCH2-4-pyridyl	3-tert-butylamino-	
1060	NH (CO) OCH - 4-puri dul	sulfonylphenyl	
	NH (CO) OCH ₂ - 4 - pyridyl	3-methylsulfonylphenyl	
1061	NH (CO) OCH ₂ -4-pyridyl	4-methoxyphenyl	
1062	NH(CO)OCH ₂ -4-pyridyl	4-phenylphenyl	
1063	NH(CO)OCH2-4-pyridyl	4-(2-hydroxymethylene- phenyl)-phenyl	
1064	NH(CO)OCH2-4-pyridyl	4-(2-tertbutylamino-	
1 2004	Mil(co/ocity 4 pyrrayr	sufonylphenyl)-phenyl	
1065	NH(CO)OCH2-4-pyridyl	4-(2-methylamino-	
		sufonylphenyl)-phenyl	
1066	NH(CO)OCH2-4-pyridyl	.4-(2-ethylamino-	
		sufonylphenyl)-phenyl	
1067	NH(CO)OCH2-4-pyridyl	4-(2-aminosufonyl-phenyl)-	
1068	NH(CO)OCH2-4-pyridyl	phenyl 4-(2-chlorophenyl)-phenyl	
1069		4-(2-fluorophenyl)-phenyl	
1070	NH (CO) OCH ₂ -4-pyridyl	4-(2,4-dichlorophenyl)-	
10/0	NH(CO)OCH2-4-pyridyl	phenyl	
1071	NH(CO)OCH2-4-pyridyl	4-(2,6-dichlorophenyl)-	
		phenyl	
1072	NH(CO)OCH2-4-pyridyl	4-(3,5-dichlorophenyl)-	
<u></u>		phenyl	
1073	NH(CO)OCH2-4-pyridyl	4-(2,3-dichlorophenyl)-	
1074	NTI (00) 0011 A mini dial	phenyl	
1074	NH (CO) OCH ₂ -4-pyridyl	4-(2-methylphenyl)-phenyl	_
1075	NH(CO)OCH2-4-pyridyl	4-(2-tetrazole-phenyl)- phenyl	
1076	NH(CO)OCH2-4-pyridyl	4-(2-methoxy-phenyl)-phenyl	
1077	NH (CO) OCH ₂ -4-pyridyl	4-(2-tmethyl-phenyl)-phenyl	
1078	NH (CO) OCH ₂ -4-pyridyl	4-(2-formyl-phenyl)-phenyl	
1079	NH(CO)OCH2-4-pyridyl	4-(2-amino-phenyl)-phenyl	
1080	NH (CO) OCH ₂ -4-pyridyl	4-(2-methylamino-phenyl)-	
1000	mi(co/ocing = pjiiaji	phenyl	
1081	NH(CO)OCH2-4-pyridyl	4-(2-ethylamino-phenyl)-	
	-	phenyl	
1082	NH(CO)OCH2-4-pyridyl	4-(2-propylamino-phenyl)-	
		phenyl	
1083	NH(CO)OCH2-4-pyridyl	4-(2-methylsulfonylamino- phenyl)-phenyl	
1084	NH(CO)OCH2-4-pyridyl	4-(2-	
1004	m.(00,00m, 1 p,11m,1	trifluoromethylsulfonyl-	
		amino-phenyl)-phenyl	
1085	NH(CO)OCH2-4-pyridyl	4-(3-methylphenyl)-phenyl	
1086	NH(CO)OCH2-4-pyridyl	4-(3-isopropylphenyl)-	
		phenyl	
1087	NH(CO)OCH2-4-pyridyl	4-(3-	
1 1		trifluoromethylsulfonyl- amino-phenyl)-phenyl	
1088	NH(CO)OCH2-4-pyridyl	4-(3-methylsulfonylamino-	
	in (co, cong a pirrali	phenyl) -phenyl	
1089	NH(CO)OCH2-4-pyridyl	4-(3-amino-phenyl)-phenyl	
1090	NH (CO) OCH2-4-pyridyl	4-(3-nitro-phenyl)-phenyl	
1091	NH(CO)OCH2-4-pyridyl	2-pyridyl	
1092	NH(CO)OCH2-4-pyridyl	3-pyridyl	
1093	NH (CO) OCH ₂ -4-pyridyl	4-pyridyl	
1094	NH (CO) OCH ₂ -4-pyridyl	3-amino-4-pyridyl	
1095	NH (CO) OCH ₂ -4-pyridyl	3-hydroxy-4-pyridyl	
1000	mileologis a bittali	1 2 marony a pyriagi	

	· · · · · · · · · · · · · · · · · · ·		
1096	NH(CO)OCH ₂ -4-pyridyl	3-imidazole	
1097	NH(CO)OCH2-4-pyridyl	2-nitro-3-imidazole	
1098	NH(CO)OCH2-4-pyridyl	5-thiazole	
1099	NH(CO)OCH2-4-pyridyl	5-oxazole	
1100	NH(CO)OCH ₂ -4-pyridyl	4-pyazole	•
1101	NH(CO)OCH ₂ -4-pyridyl	phenylethyl	
1102	NH(CO)OCH ₂ -4-pyridyl	2-aminophenylethyl	
1103	NH(CO)OCH2-4-pyridyl	2-methylsulfonylamino-	
1101		phenylethyl	
1104	NH(CO)OCH2-4-pyridyl	2-	
		trifluoromethylsulfonylamin o-phenylethyl	
1105	NH(CO)OCH2-4-pyridyl	2-hydroxymethylene-	
	-	phenylethyl	
1106	NH(CO)OCH2-4-pyridyl	2-aminomethylene-	
1105		phenylethyl	
1107	NH(CO)OCH ₂ -4-pyridyl	2-tetrazolephenylethyl	
1108	NH(CO)OCH2-4-pyridyl	2-tertbutylamino-	
1109	NH(CO)OCH2-4-pyridyl	sulfonylphenylethyl 2-aminosulfonyl-phenylethyl	
1110	NH(CO)OCH ₂ -4-pyridy1 NH(CO)OCH ₂ -4-pyridy1	2-methoxyphenylethyl	
1111	NH(CO)OCH2-4-pyridy1 NH(CO)OCH2-4-pyridy1	3-aminophenylethyl	
1112	NH (CO) OCH ₂ -4-pyridyl	3-methylsulfonylamino-	
1112	NA (CO) OCA2-4-PYI IdyI	phenylethyl	i
1113	NH(CO)OCH2-4-pyridyl	3-	
		trifluoromethylsulfonylamin	
	 	o-phenylethyl	
1114	NH(CO)OCH ₂ -4-pyridyl	3-hydroxymethylene-	
1115	NTI (CO) CC!! A	phenylethyl	
1115	NH(CO)OCH2-4-pyridyl	3-aminomethylene- phenylethyl	
1116	NH(CO)OCH2-4-pyridyl	3-tetrazolephenylethyl	
1117	NH(CO)OCH2-4-pyridyl	3-tert-butylamino-	
		sulfonylphenylethyl	ŀ
1118	NH(CO)OCH2-4-pyridyl	3-aminosulfonyl-phenylethyl	
1119	NH(CO)OCH2-4-pyridyl	3-methoxyphenylethyl	
1120	NHS (O ₂) CH ₃	н	
1121	NHS (O2) CH3	methyl	
1122	NHS (O_2) CH ₃	ethyl	
1123	NHS (O ₂) CH ₃	n-propyl	
1124	NHS (O_2) CH ₃	n-butyl	
1125	NHS (O2) CH3	n-pentyl	
1126	NHS (O2) CH3	n-hexanyl	
1127	NHS(O ₂)CH ₃	n-heptanyl	
1128	NHS (O_2) CH ₃	isopropyl	
1129	NHS (O_2) CH ₃	tert-butyl	
1130	NHS (O2) CH3	cyclopropyl	
1131	NHS (O_2) CH ₃	cyclobutanyl	
1132	NHS (O2) CH3	cyclpentanyl	
1133	NHS (O ₂) CH ₃	cyclohexanyl	
1134	NHS (O ₂) CH ₃	cycloheptanyl	
1135	NHS (O2) CH3	phenyl	
1136	NHS (O2) CH3	phenylmethyl	
1137	NHS (O2) CH3	3-hydroxyphenyl	
1138	NHS (O2) CH3	3-hydroxy-4-methoxyphenyl	
1139	NHS (O2) CH3	3-fluorophenyl	
1140	NHS (O2) CH3	3-chlorophenyl	
1141	NHS (O ₂) CH ₃	3-nitropheny1	
1142	NHS (O2) CH3	3-aminopheny1	
			- 1

1143	NHS (O2) CH3	3-methyl-sulfonamidephenyl	
1144	NHS (O ₂) CH ₃	3-trifluoro-	
		methylsulfonamidephenyl	
1145	NHS (O_2) CH ₃	3-Ac-NHphenyl	
1146	NHS (O_2) CH ₃	3-Boc-NHphenyl	
1147	NHS (O_2) CH ₃	3-Cbz-NHphenyl	
1148	NHS (O2) CH3	3-aminomethylenephenyl	
1149	NHS (O_2) CH ₃	3-aminoethylenephenyl	
1150	NHS (O2) CH3	3-cyanophenyl	
1151	NHS (O2) CH3	3-cyanomethylphenyl	
1152	NHS (O2) CH3	3-hydroxymethylenephenyl	
1153	NHS (O ₂) CH ₃	3-carboxylphenyl	
1154	NHS (O_2) CH ₃	3-mercaptophenyl	
1155	NHS (O2) CH3	3-methoxyphenyl	
1156	NHS (O2) CH3	3,4-methylenedioxophenyl	
1157	NHS (O2) CH3	3-tetrazolephenyl	
1158	NHS (O ₂) CH ₃	3-aminosulfonylphenyl	
1159	NHS (O ₂) CH ₃	3-methylamino-	1
		sulfonylphenyl	
1160	NHS (O ₂) CH ₃	3-ethylamino-sulfonylphenyl	
1161	NHS (O ₂) CH ₃	3-tertbutylamino- sulfonylphenyl	
1162	NHS (O2) CH3	3-methylsulfonylphenyl	
	NHS (O ₂) CH ₃	4-methoxyphenyl	
1163 1164	NHS (O ₂) CH ₃	4-phenylphenyl	
	NHS (O ₂) CH ₃	4-(2-hydroxymethylene-	
1165	NHS (O2/CH3	phenyl)-phenyl	
1166	NHS (O2) CH3	4-(2-tert-butylamino-	
		sufonylphenyl)-phenyl	
1167	NHS (O2) CH3	4-(2-methylamino-	ļ
		sufonylphenyl)-phenyl 4-(2-ethylamino-	
1168	NHS (O_2) CH ₃	sufonylphenyl)-phenyl	
1169	NHS (O2) CH3	4-(2-aminosufonyl-phenyl)-	
1105		phenyl	
1170	NHS (O ₂) CH ₃	4-(2-chlorophenyl)-phenyl	
1171	NHS (O2) CH3	4-(2-fluorophenyl)-phenyl	
1172	NHS (O2) CH3	4-(2,4-dichlorophenyl)-	
		phenyl 4-(2,6-dichlorophenyl)-	
1173	NHS (O2) CH3	4-(2,6-dichlorophenyl)- phenyl	
1174	NHS (O ₂) CH ₃	4-(3,5-dichlorophenyl)-	
11/4	NH3 (02/CH3	pheny1	
1175	NHS (O2) CH3	4-(2,3-dichlorophenyl)-	
		phenyl	
1176	NHS (O_2) CH ₃	4-(2-methylphenyl)-phenyl	
1177	NHS (O_2) CH ₃	4-(2-tetrazole-phenyl)- phenyl	
1178	NHS (O ₂) CH ₃	4-(2-methoxy-phenyl)-phenyl	
1179	NHS (O ₂) CH ₃	4-(2-tmethyl-phenyl)-phenyl	
1180	NHS (O ₂) CH ₃	4-(2-formyl-phenyl)-phenyl	
1181	NHS (O_2) CH ₃	4-(2-amino-phenyl)-phenyl	
1182	NHS (O ₂) CH ₃	4-(2-methylamino-phenyl)-	
	NT (phenyl 4-(2-ethylamino-phenyl)-	
1183	NHS (O ₂) CH ₃	phenvl	
1184	NHS (O2) CH3	4-(2-propylamino-phenyl)- phenyl	
1185	NHS (O ₂) CH ₃	4-(2-methylsulfonyl-	
1103	1.1.5 (02) 0113	aminophenyl)-phenyl	

1186	NHS (O_2) CH ₃	4-(2-	
1 3		trifluoromethylsulfonyl-	1
1187	NHS (O2) CH3	amino-phenyl)-phenyl 4-(3-methylphenyl)-phenyl	
1188	NHS (O ₂) CH ₃	4-(3-isopropylphenyl)-	
1100	MIS (O ₂ / CII3	phenyl	•
1189	NHS(O ₂)CH ₃	4-(3-	
1		trifluoromethylsulfonyl-	
		amino-phenyl)-phenyl	
1190	NHS (O_2) CH ₃	4-(3-methylsulfonylamino-	
1101	7717 (0.) 011	phenyl)-phenyl	
1191	NHS(O ₂)CH ₃	4-(3-amino-phenyl)-phenyl	
1192	NHS(O ₂)CH ₃	4-(3-nitro-phenyl)-phenyl	
1193	NHS(O ₂)CH ₃	2-pyridyl	
1194	NHS (O ₂) CH ₃	3-pyridyl	
1195	NHS (O2) CH3	4-pyridyl	
1196	NHS (O_2) CH ₃	3-amino-4-pyridyl	
1197	NHS(O ₂)CH ₃	3-hydroxy-4-pyridyl	
1198	NHS (O ₂) CH ₃	3-imidazole	
1199	NHS (O2) CH3	2-nitro-3-imidazole	
1200	NHS (O2) CH3	5-thiazole	
1201	NHS (O ₂) CH ₃	5-oxazole	
1202	NHS (O ₂) CH ₃	4-pyazole	
1203	NHS (O ₂) CH ₃	phenylethyl	
1204	NHS(O ₂)CH ₃	2-aminophenylethyl	
1205	NHS (O ₂) CH ₃	2-methylsulfonylamino-	
1205	141.5 (02/01.3	phenylethyl	
1206	NHS (O2) CH3	2-	
1		trifluoromethylsulfonylamin	
		o-phenylethyl	
1207	NHS (O_2) CH ₃	2-hydroxymethylene-	
1200	7710 (O.) OU	phenylethyl 2-aminomethylene-	
1208	NHS (O_2) CH ₃	phenylethyl	
1209	NHS(O ₂)CH ₃	2-tetrazolephenylethyl	
1210	NHS (O ₂) CH ₃	2-tert-butylamino-	
	1.115 (02,0113	sulfonylphenylethyl	
1211	NHS(O ₂)CH ₃	2-aminosulfonyl-phenylethyl	
1212	NHS (O2) CH3	2-methoxyphenylethyl	
1213	NHS(O ₂)CH ₃	3-aminophenylethyl	
1214	NHS(O ₂)CH ₃	3-methylsulfonylamino-	-
		phenylethyl	
1215	NHS (O_2) CH ₃	3-	
		trifluoromethylsulfonylamin	
1216	, , , , , , , , , , , , , , , , , , ,	o-phenylethyl	
1216	NHS (O2) CH3	3-hydroxymethylene- phenylethyl	
1217	NHS (O ₂) CH ₃	3-aminomethylene-	
1	1415 (02) 6113	phenylethyl	
1218	NHS (O2) CH3	3-tetrazolephenylethyl	
1219	NHS (O ₂) CH ₃	3-tert-butylamino-	
		sulfonylphenylethyl	
1220	NHS (O ₂) CH ₃	3-aminosulfonyl-phenylethyl	
1221	NHS (O ₂) CH ₃	3-methoxyphenylethyl	
1222	NHS(O ₂)CF ₃	Н	
1223	NHS(O ₂)CF ₃	methyl	
1224	NHS (O2) CF3	ethyl	
1225	NHS(O ₂)CF ₃	n-propyl	
1226	NHS (O ₂) CF ₃	n-butyl	
1227	NHS (O ₂) CF ₃	n-pentyl	
1228	NHS (O ₂) CF ₃	n-hexanyl	
	1410 (02/013	11-11CVG11AT	

1220	NIG (O.) CE		
1229	NHS (O ₂) CF ₃	n-heptanyl	
1230	NHS (O ₂) CF ₃	isopropyl	
1231	NHS (O ₂) CF ₃	tert-butyl	
1232	NHS (O ₂) CF ₃	cyclopropyl	
1233	NHS (O ₂) CF ₃	cyclobutanyl	·
1234	NHS (O ₂) CF ₃	cyclpentanyl	
1235	NHS (O ₂) CF ₃	cyclohexanyl	
1236	NHS(O ₂)CF ₃	cycloheptanyl	
1237	NHS (O ₂) CF ₃	phenyl	
1238	NHS(O ₂)CF ₃	phenylmethyl	
1239	NHS(O ₂)CF ₃	3-hydroxyphenyl	
1240	NHS(O ₂)CF ₃	3-hydroxy-4-methoxyphenyl	
1241	NHS(O ₂)CF ₃	3-fluorophenyl	
1242	NHS(O2)CF3	3-chlorophenyl	
1243	NHS(O ₂)CF ₃	3-nitrophenyl	
1244	NHS(O2)CF3	3-aminophenyl	
1245	NHS(O ₂)CF ₃	3-methyl-sulfonamidephenyl	
1246	NHS (O2) CF3	3-trifluoro-	
		methylsulfonamidephenyl	
1247	NHS(O ₂)CF ₃	3-Ac-NHphenyl	
1248	NHS(O ₂)CF ₃	3-Boc-NHphenyl	
1249	NHS(O2)CF3	3-Cbz-NHphenyl	
1250	NHS(O2)CF3	3-aminomethylenephenyl	
1251	NHS (O2) CF3	3-aminoethylenephenyl	
1252	NHS(O ₂)CF ₃	3-cyanophenyl	
1253	NHS(O ₂)CF ₃	3-cyanomethylphenyl	
1254	NHS (O2) CF3	3-hydroxymethylenephenyl	
1255	NHS(O ₂)CF ₃	3-carboxylphenyl	
1256	NHS(O ₂)CF ₃	3-mercaptophenyl	
1257	NHS (O ₂) CF ₃	3-methoxyphenyl	
1258	NHS (O ₂) CF ₃	3,4-methylenedioxophenyl	
1259	NHS (O ₂) CF ₃	3-tetrazolephenyl	
1260	NHS (O ₂) CF ₃	3-aminosulfonylphenyl	
1261	NHS (O ₂) CF ₃	3-methylamino-	
1201	1410 (02/013	sulfonylphenyl	
1262	NHS (O2) CF3	3-ethylamino-sulfonylphenyl	
1263	NHS (O ₂) CF ₃	3-tert-butylamino-	
		sulfonylphenyl	
1264	NHS (O ₂) CF ₃	3-methylsulfonylphenyl	
1265	NHS (O ₂) CF ₃	4-methoxyphenyl	
1266	NHS (O ₂) CF ₃	4-phenylphenyl	
1267	NHS (O ₂) CF ₃	4-(2-hydroxymethylene- phenyl)-phenyl	
1268	NHS(O ₂)CF ₃	4-(2-tertbutylamino-	
1269	NHS(O ₂)CF ₃	sufonylphenyl)-phenyl 4-(2-methylamino-	
1209	MAS (O2/CF3	sufonylphenyl)-phenyl	
1270	NHS(O ₂)CF ₃	4-(2-ethylamino-	
		sufonylphenyl)-phenyl	
1271	NHS (O ₂) CF ₃	4-(2-aminosufonyl-phenyl)- phenyl	
1272	NHS (O2) CF3	4-(2-chlorophenyl)-phenyl	
1273	NHS (O ₂) CF ₃	4-(2-fluorophenyl)-phenyl	
1274	NHS (O_2) CF ₃	4-(2,4-dichlorophenyl)-	
		phenyl	
1275	NHS (O ₂) CF ₃	4-(2,6-dichlorophenyl)- phenyl	
1276	NHS (O ₂) CF ₃	4-(3,5-dichlorophenyl)-	
	, -2, ,	phenyl	

1277	NHS (O_2) CF ₃	4-(2,3-dichlorophenyl)- phenyl	
1278	NHS (O2) CF3	4-(2-methylphenyl)-phenyl	
1279	NHS (O ₂) CF ₃	4-(2-tetrazole-phenyl)-	
		phenyl	
1280	NHS (O ₂) CF ₃	4-(2-methoxy-phenyl)-phenyl	
1281	NHS (O ₂) CF ₃	4-(2-tmethyl-phenyl)-phenyl	
1282	NHS(O ₂)CF ₃	4-(2-formyl-phenyl)-phenyl	
1283	NHS (O_2) CF ₃	4-(2-amino-phenyl)-phenyl	
1284	NHS (O_2) CF ₃	4-(2-methylamino-phenyl)- phenyl	
1285	NHS (O ₂) CF ₃	4-(2-ethylamino-phenyl)- phenyl	
1286	NHS (O ₂) CF ₃	4-(2-propylamino-phenyl)- phenyl	
1287	NHS(O ₂)CF ₃	4-(2-methylsulfonylamino- phenyl)-phenyl	·
1288	NHS(O ₂)CF ₃	4-(2-	
		trifluoromethylsulfonyl-	
		amino-phenyl)-phenyl	
1289	NHS (O ₂) CF ₃	4-(3-methylphenyl)-phenyl	
1290	NHS(O ₂)CF ₃	4-(3-isopropylphenyl)- phenyl	
1291	NHS (O_2) CF ₃	4-(3-	
		trifluoromethylsulfonyl-	
1292	NHS(O ₂)CF ₃	amino-phenyl)-phenyl 4-(3-methylsulfonylamino-	
1232	NAS (02) CF3	phenyl)-phenyl	
1293	NHS(O ₂)CF ₃	4-(3-amino-phenyl)-phenyl	
1294	NHS (O ₂) CF ₃	4-(3-nitro-phenyl)-phenyl	
1295	NHS(O ₂)CF ₃	2-pyridyl	
1296	NHS (O ₂) CF ₃	3-pyridyl	
1297	NHS (O ₂) CF ₃	4-pyridyl	
1298	NHS (O ₂) CF ₃	3-amino-4-pyridyl	\neg
1299	NHS (O ₂) CF ₃	3-hydroxy-4-pyridyl	
1300	NHS (O ₂) CF ₃	3-imidazole	
1301	NHS (O ₂) CF ₃	2-nitro-3-imidazole	
1302	$NHS(O_2)CF_3$	5-thiazole	
1303	NHS (O ₂) CF ₃	5-oxazole	
1304	NHS (O ₂) CF ₃	4-pyazole	
1305	NHS (O ₂) CF ₃	phenylethyl	
1306	NHS (O ₂) CF ₃	2-aminophenylethyl	
1307	NHS (O_2) CF ₃	2-methylsulfonylamino-	
		phenylethyl	
1308	NHS(O ₂)CF ₃	trifluoromethylsulfonylamin	
1309	NHS (O ₂) CF ₃	2-hydroxymethylene- phenylethyl	
1310	NHS (O ₂) CF ₃	2-aminomethylene- phenylethyl	
1311	NHS (O2) CF3	2-tetrazolephenylethyl	
1312	NHS (O ₂) CF ₃	2-tert-butylamino- sulfonylphenylethyl	
1313	NHS (O ₂) CF ₃	2-aminosulfonyl-phenylethyl	
1314	NHS (O_2) CF ₃	2-methoxyphenylethyl	
1315	NHS (O ₂) CF ₃	3-aminophenylethyl	
1316	$NHS(O_2)CF_3$ $NHS(O_2)CF_3$	3-methylsulfonylamino-	
<u> </u>	-	phenylethyl	
1317	NHS (O ₂) CF ₃	trifluoromethylsulfonylamin o-phenylethyl	

1318	NHS (O_2) CF ₃	3-hydroxymethylene-
		phenylethyl
1319	NHS (O2) CF3	3-aminomethylene-
		phenylethyl
1320	NHS (O_2) CF ₃	3-tetrazolephenylethyl
1321	NHS (O ₂) CF ₃	3-tertbutylamino-
		sulfonylphenylethyl
1322	NHS (O ₂) CF ₃	3-aminosulfonyl-phenylethyl
1323	NHS(O ₂)CF ₃	3-methoxyphenylethyl
1324	4- aminophenyls(O)2NH	Н
1325	4- aminophenyls(0)2NH	methyl
		ethyl
1326	4- aminophenyls(0)2NH	
1327	4- aminophenyls(0)2NH	n-propyl n-butyl
1328	4- aminophenyls(0)2NH	
1329	4- aminophenylS(O)2NH	n-pentyl
1330	4- aminophenyls(0)2NH	n-hexanyl
1331	4- aminophenylS(O)2NH	n-heptanyl
1332	4- aminophenyls(0)2NH	isopropyl
1333	4- aminophenyls(O)2NH	tert-butyl
1334	4- aminophenyls(O)2NH	cyclopropyl
1335	4- aminophenyls(0)2NH	cyclobutanyl
1336	4- aminophenyls(O)2NH	cyclpentanyl
1337	4- aminophenyls(0)2NH	cyclohexanyl
1338	4- aminophenyls(0)2NH	cycloheptanyl
1339	4- aminophenyls(0)2NH	phenyl
1340	4- aminophenyls(0)2NH	phenylmethyl
1341	4- aminophenylS(O)2NH	3-hydroxyphenyl
1342	4- aminophenylS(O)2NH	3-hydroxy-4-methoxyphenyl
1343	4- aminophenyls(0)2NH	3-fluorophenyl
1344	4- aminophenyls(O)2NH	3-chlorophenyl
1345	4- aminophenyls(0)2NH	3-nitrophenyl
1346	4- aminophenylS(O)2NH	3-aminophenyl
1347	4- aminophenylS(0)2NH	3-methyl-sulfonamidephenyl
1348	4- aminophenylS(0)2NH	3-trifluoro-
		methylsulfonamidephenyl
1349	4- aminophenylS(O)2NH	3-Ac-NHphenyl
1350	4- aminophenyls(0)2NH	·3-Boc-NHphenyl
1351	4- aminophenylS(O)2NH	3-Cbz-NHphenyl
1352	4- aminophenyls(0)2NH	3-aminomethylenephenyl
1353	4- aminophenylS(0)2NH	3-aminoethylenephenyl
1354	4- aminophenyls(O)2NH	3-cyanophenyl
1355	4- aminophenylS(0)2NH	3-cyanomethylphenyl
1356	4- aminophenylS(0)2NH	3-hydroxymethylenephenyl
1357	4- aminophenylS(O)2NH	3-carboxylphenyl
1358	4- aminophenylS(0)2NH	3-mercaptopheny1
1359	4- aminophenylS(O)2NH	3-methoxyphenyl
1360	4- aminophenylS(O)2NH	3,4-methylenedioxophenyl
1361	4- aminophenylS(O)2NH	3-tetrazolephenyl
1362	4- aminophenylS(O)2NH	3-aminosulfonylphenyl
1363	4- aminophenylS(O)2NH	3-methylamino-
1 -505	2	sulfonylphenyl
1364	4- aminophenylS(O)2NH	3-ethylamino-sulfonylphenyl
1365	4- aminophenyls(0)2NH	3-tert-butylamino-
		sulfonylphenyl
1366	4- aminophenylS(O)2NH	3-methylsulfonylphenyl
1367	4- aminophenylS(O)2NH	4-methoxyphenyl
1368	4- aminophenylS(O)2NH	4-phenylphenyl
1369	4- aminophenylS(O)2NH	4-(2-hydroxymethylene-
1309	- andreopticity to (0/2141)	phenyl) -phenyl
1370	4- aminophenylS(O)2NH	4-(2-tert-butylamino-
1 *3,0	= diminopheny to (0) 21411	sufonylphenyl)-phenyl
1371	4- aminophenyls(0)2NH	4-(2-methylamino-
1 -5/1		sufonylphenyl)-phenyl
L	A	<u> </u>

1372	4- aminophenyls(O)2NH	4-(2-ethylamino- sufonylphenyl)-phenyl
1373	4- aminophenyls(0)2NH	4-(2-aminosufonyl-phenyl)-
13,3		phenyl
1374	4- aminophenylS(O)2NH	4-(2-chlorophenyl)-phenyl
1375	4- aminophenyls(O)2NH	4-(2-fluorophenyl)-phenyl
1376	4- aminophenylS(O)2NH	4-(2,4-dichlorophenyl)- phenyl
1377	4- aminophenylS(0)2NH	4-(2,6-dichlorophenyl)-
		phenyl
1378	4- aminophenylS(O) ₂ NH	4-(3,5-dichlorophenyl)-
1379	4- aminophenyls(O) ₂ NH	phenyl 4-(2,3-dichlorophenyl)-
13,9	4- anthopheny 15 (0)2mi	phenyl
1380	4- aminophenyls(O) ₂ NH	4-(2-methylphenyl)-phenyl
1381	4- aminophenyls(O) ₂ NH	4-(2-tetrazole-phenyl)-
	10/0/10	phenyl
1382	4- aminophenyls(0) ₂ NH	4-(2-methoxy-phenyl)-phenyl
1383	4- aminophenyls(0) ₂ NH	4-(2-tmethyl-phenyl)-phenyl
1384	4- aminophenylS(0) ₂ NH	4-(2-formyl-phenyl)-phenyl
1385	4- aminophenyls(0) ₂ NH	4-(2-amino-phenyl)-phenyl 4-(2-methylamino-phenyl)-
1386	4- aminophenylS(O) ₂ NH	phenyl
1387	4- aminophenylS(O) ₂ NH	4-(2-ethylamino-phenyl)- phenyl
1388	4- aminophenylS(O) ₂ NH	4-(2-propylamino-phenyl)- phenyl
1389	4- aminophenylS(O) ₂ NH	4-(2-methylsulfonylamino- phenyl)-phenyl
1390	4- aminophenylS(O) ₂ NH	4-(2-
		trifluoromethylsulfonyl- amino-phenyl)-phenyl
1391	4- aminophenyls(O) ₂ NH	4-(3-methylphenyl)-phenyl
1392	4- aminophenylS(O) ₂ NH	4-(3-isopropylphenyl)- phenyl
1393	4- aminophenyls(0) ₂ NH	4-(3-
		trifluoromethylsulfonyl-
1394	4- aminophenyls(0) ₂ NH	amino-phenyl)-phenyl 4-(3-methylsulfonylamino-
1394	4- authophenyis (O)2NR	phenyl)-phenyl
1395	4- aminophenylS(O) ₂ NH	4-(3-amino-phenyl)-phenyl
1396	4- aminophenyls(O) ₂ NH	4-(3-nitro-phenyl)-phenyl
1397	4- aminophenyls(O) ₂ NH	2-pyridyl
1398	4- aminophenyls(O)2NH	3-pyridyl
1399	4- aminophenyls(0) ₂ NH	4-pyridyl
1400	4- aminophenyls(O) ₂ NH	3-amino-4-pyridyl
1401	4- aminophenyls(O) ₂ NH	3-hydroxy-4-pyridyl
1402	4- aminophenyls(O) ₂ NH .	3-imidazole
1403	.4- aminophenyls(O) ₂ NH	2-nitro-3-imidazole
1404	4- aminophenyls(O) ₂ NH	5-thiazole
1405	4- aminophenyls(O) ₂ NH	5-oxazole
1406	4- aminophenyls(O) ₂ NH	4-pyazole
1407	4- aminophenyls(O) ₂ NH	phenylethyl
1408	4- aminophenylS(O) ₂ NH	2-aminophenylethyl
1409	4- aminophenyls(O) ₂ NH	2-methylsulfonylamino- phenylethyl
1410	4- aminophenylS(O)2NH	2-
		trifluoromethylsulfonylamin
1411	4- aminophenyls(O) ₂ NH	o-phenylethyl 2-hydroxymethylene-
1411	4- authophenyra (0/2NA	phenylethyl

1412	4- aminophenyls(O) ₂ NH	2-aminomethylene-
1413	4- aminophenyls(0)2NH	phenylethyl 2-tetrazolephenylethyl
1414	4- aminophenylS(O) ₂ NH	2-tert-butylamino-
1414	• and notherly 15 (0/2Mi	sulfonylphenylethyl
1415	4- aminophenylS(O) ₂ NH	2-aminosulfonyl-phenylethyl
1416	4- aminophenylS(O) ₂ NH	2-methoxyphenylethyl
1417	4- aminophenyls(O) ₂ NH	3-aminophenylethyl
1418	4- aminophenyls(O) ₂ NH	3-methylsulfonylamino-
	•	phenylethyl
1419	4- aminophenyls(O) ₂ NH	3- trifluoromethylsulfonylamin o-phenylethyl
1420	4- aminophenyls(O) ₂ NH	3-hydroxymethylene- phenylethyl
1421	4- aminophenyls(0) ₂ NH	3-aminomethylene- phenylethyl
1422	4- aminophenyls(O) ₂ NH	3-tetrazolephenylethyl
1423	4- aminophenyls(O) ₂ NH	3-tert-butylamino-
		sulfonylphenylethyl
1424	4- aminophenylS(O) ₂ NH	3-aminosulfonyl-phenylethyl
1425	4- aminophenylS(O)2NH	3-methoxyphenylethyl
1426	NH (CO) NMe ₂	Н
1427	NH (CO) NMe ₂	methyl
1428	NH (CO) NMe ₂	ethyl
1429	NH (CO) NMe ₂	n-propyl
1430	NH (CO) NMe ₂	n-butyl
1431	NH (CO) NMe ₂	n-pentyl
1432	NH (CO) NMe ₂	n-hexanyl
1433	NH (CO) NMe ₂	n-heptanyl
1434	NH (CO) NMe ₂	isopropyl
1435	NH (CO) NMe ₂	tert-butyl
1436	NH (CO) NMe ₂	cyclopropyl
1437	NH (CO) NMe ₂	cyclobutanyl cyclpentanyl
1438	NH (CO) NMe ₂	cyclohexanyl
1439	NH (CO) NMe ₂	cyclohexanyl
1440	NH (CO) NMe ₂	phenyl
1441	NH (CO) NMe ₂	phenyl
1442	NH (CO) NMe ₂	3-hydroxyphenyl
1443	NH (CO) NMe ₂	
1444	NH (CO) NMe ₂	3-hydroxy-4-methoxyphenyl 3-fluorophenyl
	NH(CO)NMe ₂ NH(CO)NMe ₂	3-fildorophenyl
1446	NH (CO) NMe ₂ NH (CO) NMe ₂	3-nitrophenyl
1448	NH (CO) NMe ₂ NH (CO) NMe ₂	3-minopheny1
1449	NH (CO) NMe ₂	3-methylsulfonamidephenyl
1450	NH (CO) NMe ₂	3-trifluoro-methyl-
		sulfonamidephenyl
1451	NH (CO) NMe ₂	3-Ac-NHphenyl
1452	NH (CO) NMe ₂	3-Boc-NHphenyl
1453	NH (CO) NMe ₂	3-Cbz-NHphenyl
1454	NH (CO) NMe ₂	3-aminomethylenephenyl
1455	NH (CO) NMe ₂	3-aminoethylenephenyl
1456	NH (CO) NMe ₂	3-cyanophenyl
1457	NH (CO) NMe ₂	3-cyanomethylphenyl
1458	NH (CO) NMe ₂	3-hydroxy-methylenephenyl
1459	NH (CO) NMe ₂	3-carboxylphenyl
1460	NH (CO) NMe ₂	3-mercaptophenyl
1461	NH (CO) NMe ₂	3-methoxyphenyl

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1462	NH (CO) NMe2	3,4-methylenedioxophenyl	
1463	NH (CO) NMe ₂	3-tetrazolephenyl	
1464	NH (CO) NMe2	3-aminosulfonylphenyl	
1465	NH (CO) NMe ₂	3-methylamino- sulfonylphenyl	
1466	NH (CO) NMe2	3-ethylamino-sulfonylphenyl	
1467	NH (CO) NMe ₂	3-tert-butylamino- sulfonylphenyl	
1468	NH (CO) NMe ₂	3-methylsulfonylphenyl	
1469	NH (CO) NMe ₂	4-methoxyphenyl	
1470	NH (CO) NMe2	4-phenylphenyl	
1471	NH (CO) NMe ₂	4-(2-hydroxymethylene- phenyl)-phenyl	
1472	NH (CO) NMe ₂	4-(2-tertbutylamino- sufonylphenyl)-phenyl	
1473	NH (CO) NMe ₂	4-(2-methylamino-sufonyl- phenyl)-phenyl	·
1474	NH (CO) NMe ₂	4-(2-ethylamino- sufonylphenyl)-phenyl	
1475	NH (CO) NMe ₂	4-(2-aminosufonyl-phenyl)- phenyl	
1476	NH (CO) NMe ₂	4-(2-chlorophenyl)-phenyl	
1477	NH (CO) NMe2	4-(2-fluorophenyl)-phenyl	
1478	NH (CO) NMe ₂	4-(2,4-dichlorophenyl)- phenyl	
1479	NH (CO) NMe ₂	4-(2,6-dichlorophenyl)- phenyl	
1480	NH (CO) NMe ₂	4-(3,5-dichlorophenyl)- phenyl	
1481	NH (CO) NMe ₂	4-(2,3-dichlorophenyl)- phenyl	
1482	NH (CO) NMe ₂	4-(2-methylphenyl)-phenyl	
1483	NH(CO)NMe ₂	4-(2-tetrazole-phenyl)- phenyl	
1484	NH (CO) NMe ₂	4-(2-methoxy-phenyl)-phenyl	
1485	NH (CO) NMe ₂	4-(2-tmethyl-phenyl)-phenyl	
1486	NH (CO) NMe ₂	4-(2-formyl-phenyl)-phenyl	
1487	NH (CO) NMe ₂	4-(2-amino-phenyl)-phenyl	
1488	NH (CO) NMe ₂	4-(2-methylamino-phenyl)- phenyl	
1489	NH (CO) NMe ₂	4-(2-ethylamino-phenyl)- phenyl	
1490	NH (CO) NMe ₂	4-(2-propylamino-phenyl)- phenyl	
1491	NH (CO) NMe ₂	4-(2-methylsulfonylamino- phenyl)-phenyl	
1492	NH (CO) NMe ₂	4-(2- trifluoromethylsulfonyl- amino-phenyl)-phenyl	
1493	NH (CO) NMe ₂	4-(3-methylphenyl)-phenyl	
1494	NH (CO) NMe ₂	4-(3-isopropylphenyl)- phenyl	
1495	NH (CO) NMe ₂	4-(3- trifluoromethylsulfonyl- amino-phenyl)-phenyl	
1496	NH (CO) NMe ₂	4-(3-methylsulfonylamino- phenyl)-phenyl	
1497	NH (CO) NMe2	4-(3-amino-phenyl)-phenyl	
1498	NH (CO) NMe ₂	4-(3-nitro-phenyl)-phenyl	
1499	NH (CO) NMe ₂	2-pyridyl	
1500	NH (CO) NMe2	3-pyridyl	
1501	NH (CO) NMe2	4-pyridyl	

1502	NH (CO) NMe ₂	3-amino-4-pyridyl	
1502		3-hydroxy-4-pyridyl	
1504	NH (CO) NMe ₂ NH (CO) NMe ₂	3-imidazole	
1505	NH (CO) NMe ₂	2-nitro-3-imidazole	
1506	NH (CO) NMe ₂	5-thiazole	
1507	NH (CO) NMe ₂	5-oxazole	
1508	NH (CO) NMe ₂	4-pyazole	
1509	NH (CO) NMe ₂	phenylethyl	
1510	NH (CO) NMe ₂	2-aminophenylethyl	
1511	NH (CO) NMe ₂	2-methylsulfonylamino-	
	111 (00) 111102	phenylethyl	
1512	NH (CO) NMe₂	2- trifluoromethylsulfonylamin o-phenylethyl	
1513	NH (CO) NMe ₂	2-hydroxymethylene- phenylethyl	-
1514	NH (CO) NMe ₂	2-aminomethylene- phenylethyl	
1515	NH (CO) NMe2	2-tetrazolephenylethyl	
1516	NH (CO) NMe2	2-tert-butylamino-	
	_	sulfonylphenylethyl	
1517	NH (CO) NMe ₂	2-aminosulfonyl-phenylethyl	
1518	NH (CO) NMe ₂	2-methoxyphenylethyl	
1519	NH (CO) NMe ₂	3-aminophenylethyl	
1520	NH (CO) NMe₂	3-methylsulfonylamino- phenylethyl	
1521	NH (CO) NMe2	3- trifluoromethylsulfonylamin o-phenylethyl	
1522	NH (CO) NMe2	3-hydroxymethylene- phenylethyl	,
1523	NH (CO) NMe ₂	3-aminomethylene- phenylethyl	
1524	NH (CO) NMe ₂	3-tetrazolephenylethyl	
1525	NH (CO) NMe ₂	3-tertbutylamino- sulfonylphenylethyl	
1526	NH (CO) NMe ₂	3-aminosulfonyl-phenylethyl	
1527	NH (CO) NMe2	3-methoxyphenylethyl	
1528	NH (CO) N (CH ₂ CH ₂) ₂ O	Н	
1529	NH (CO) N (CH ₂ CH ₂) ₂ O	methyl	
1530	NH (CO) N (CH ₂ CH ₂) ₂ O	ethyl	
1531	NH (CO) N (CH ₂ CH ₂) $_2$ O	n-propyl	
1532	NH (CO) N (CH ₂ CH ₂) ₂ O	n-butyl	
1533	NH,CO)N(CH ₂ CH ₂) ₂ O	n-pentyl	
1534	NH (CO) N (CH ₂ CH ₂) ₂ O	n-hexanyl	
1535	NH (CO) N (CH ₂ CH ₂) ₂ O	n-heptanyl	
1536	NH (CO) N (CH ₂ CH ₂) ₂ O	isopropyl	
1537	NH (CO) N (CH ₂ CH ₂) ₂ O	tert-butyl	
1538	NH (CO) N (CH ₂ CH ₂) ₂ O	cyclopropyl	
1539	NH (CO) N (CH ₂ CH ₂) ₂ O	cyclobutanyl	-
1540	NH (CO) N (CH ₂ CH ₂) ₂ O	cyclpentanyl	
1541	NH (CO) N (CH ₂ CH ₂) ₂ O	cyclohexanyl	
1542	NH (CO) N (CH ₂ CH ₂) ₂ O	cycloheptanyl	
1543	NH (CO) N (CH ₂ CH ₂) ₂ O	phenyl	
1544	NH (CO) N (CH ₂ CH ₂) ₂ O	phenylmethyl	
1545	NH (CO) N (CH ₂ CH ₂) ₂ O	3-hydroxyphenyl	
1546	NH (CO) N (CH ₂ CH ₂) ₂ O	3-hydroxy-4-methoxyphenyl	
1547	NH (CO) N (CH ₂ CH ₂) ₂ O	3-fluorophenyl	
1548	NH (CO) N (CH ₂ CH ₂) 2O	3-chlorophenyl	

1549	NH (CO) N (CH ₂ CH ₂) $_2$ O	3-nitrophenyl
1550	NH (CO) N (CH ₂ CH ₂) $_2$ O	3-aminopheny1
1551	$NH(CO)N(CH_2CH_2)_2O$	3-methyl-sulfonamidephenyl
1552	NH (CO) N (CH ₂ CH ₂) $_2$ O	3-trifluoro- methylsulfonamidephenyl
1553	NH (CO) N (CH ₂ CH ₂) 2O	3-Ac-NHphenyl
1554	NH (CO) N (CH ₂ CH ₂) ₂ O	3-Boc-NHphenyl
1555	NH (CO) N (CH ₂ CH ₂) ₂ O	3-Cbz-NHphenyl
1556	NH (CO) N (CH ₂ CH ₂) ₂ O	3-aminomethylenephenyl
1557	NH (CO) N (CH ₂ CH ₂) $_2$ O	3-aminoethylenephenyl
1558	NH (CO) N (CH ₂ CH ₂) 2O	3-cyanopheny1
1559	NH (CO) N (CH ₂ CH ₂) 2O	3-cyanomethylphenyl
1560	NH (CO) N (CH ₂ CH ₂) ₂ O	3-hydroxy-methylenephenyl
1561	NH (CO) N (CH ₂ CH ₂) $_2$ O	3-carboxylphenyl
1562	NH (CO) N (CH ₂ CH ₂) ₂ O	3-mercaptophenyl
1563	NH (CO) N (CH ₂ CH ₂) ₂ O	3-methoxyphenyl
1564	NH (CO) N (CH ₂ CH ₂) ₂ O	3,4-methylenedioxophenyl
1565	NH (CO) N (CH ₂ CH ₂) $_2$ O	3-tetrazolephenyl
1566	NH (CO) N (CH ₂ CH ₂) ₂ O	3-aminosulfonylphenyl
1567	NH (CO) N (CH ₂ CH ₂) ₂ O	3-methylamino-
		sulfonylphenyl
1568	NH (CO) N (CH ₂ CH ₂) ₂ O	3-ethylamino-sulfonylphenyl
1569	NH (CO) N (CH ₂ CH ₂) ₂ O	3-tertbutylamino-
1570	NH (CO) N (CH ₂ CH ₂) 2O	sulfonylphenyl 3-methylsulfonylphenyl
1571	NH (CO) N (CH ₂ CH ₂) ₂ O	4-methoxyphenyl
1572	NH (CO) N (CH ₂ CH ₂) ₂ O	4-phenylphenyl
1573	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-hydroxymethylene-
13/3	Nn (co) N (chi2chi2/20	phenyl) -phenyl
1574	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-tert-butylamino- sufonylphenyl)-phenyl
1575	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-methylamino-
1576	NH (CO) N (CH ₂ CH ₂) ₂ O	sufonylphenyl)-phenyl 4-(2-ethylamino-
1370		sufonylphenyl)-phenyl
1577	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-aminosufonyl-phenyl)- phenyl
1578	NH (CO) N (CH ₂ CH ₂) $_2$ O	4-(2-chlorophenyl)-phenyl
1579	NH (CO) N (CH ₂ CH ₂) $_2$ O	4-(2-fluorophenyl)-phenyl
1580	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2,4-dichlorophenyl)- phenyl
1581	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2,6-dichlorophenyl)- phenyl
1582	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(3,5-dichlorophenyl)- phenyl
1583	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2,3-dichlorophenyl)- phenyl
1584	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-methylphenyl)-phenyl
1585	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-tetrazole-phenyl)-
1586	MH (CO) M (CH-CH-) - O	phenyl 4-(2-methoxy-phenyl)-phenyl
1587	NH (CO) N (CH ₂ CH ₂) ₂ O	
1588	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-tmethyl-phenyl)-phenyl 4-(2-formyl-phenyl)-phenyl
1589	NH (CO) N (CH ₂ CH ₂) ₂ O NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-iormyi-phenyi)-phenyi 4-(2-amino-phenyi)-phenyi
1590		4-(2-amino-pheny1)-pheny1)-
	NH (CO) N (CH ₂ CH ₂) ₂ O	. phenyl
1591	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-ethylamino-phenyl)- phenyl
1592	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-propylamino-phenyl)- phenyl
		

1593			T 4 40 T1 3 16 T1 1	
1594	1593	NH (CO) N (CH ₂ CH ₂) ₂ O	4-(2-methylsulfonylamino- phenyl)-phenyl	
trifluoromethylsulfonyl- amino-phenyl - phenyl 1595	1594	NH (CO) N (CH2CH2 12O		
amino-phenyl phenyl 1596	1374	2.1. (00) 1. (0202) 20	trifluoromethylsulfonyl-	1
1596		·		
Denyl	1595	NH (CO) N (CH ₂ CH ₂) ₂ O		
1597	1596	NH (CO) N (CH ₂ CH ₂) ₂ O		
Trifluoromethylsulfonyl-amino-phenyl-phenyl-amino-phenyl-phenyl-phenyl-amino-phenyl-phenyl-phenyl-leftonyl-amino-phenyl-phenyl-leftonyl-amino-phenyl-phenyl-leftonyl-amino-phenyl-phenyl-leftonyl-phenyl-lef				
1598	1597	NH (CO) N (CH ₂ CH ₂) $_2$ O		- 1
1598	1			
	1500	NU (CO) NI (CU CU-) - O		
1599	1238	NH (CO) N (Ch ₂ Ch ₂) ₂ O		1
1600	1599	NH (CO) N (CH2CH2) 2O	4-(3-amino-phenyl)-phenyl	
1601				
1602				
1603				
1604				
1605				
1606				
1607				
1608			2-nitro-3-imidazole	
1609				
1610			5-oxazole	
1611				
1612 NH (CO) N (CH ₂ CH ₂) ₂ O 2-aminophenylethyl				
1613				
Description				
1614	1013	NA (CO) N (Ch2Ch2) 20		
trifluoromethylsulfonylamin o-phenylethyl	1614	NH (CO) N (CH ₂ CH ₂) 2O	2-	
1615				Ì
Description				
1616	1615	NH (CO) N (CH ₂ CH ₂) ₂ O		
Description	1010	NILL(CO) N. (CH- CH-) - O		
1617	1010	NA (CO/N (Ch2Ch2/20		
1618	1617	NH (CO) N (CH ₂ CH ₂) 2O	2-tetrazolephenylethyl	
Sulfonylphenylethyl 1619		The state of the s	2-tert-butylamino-	
1620		2 2 2		
1621	1619			
1622	1620	NH (CO) N (CH ₂ CH ₂) $_2$ O		
Description	1621	NH (CO) N (CH ₂ CH ₂) $_2$ O		
1623	1622	NH (CO) N (CH ₂ CH ₂) ₂ O		
trifluoromethylsulfonylamin o-phenylethyl			phenylethyl	
O-phenylethyl 3-hydroxymethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-aminomethylene-phenylethyl 3-tetrazolephenylethyl 1626	1623	NH (CO) N (CH ₂ CH ₂) ₂ O	trifluoromethylsulfonylamin	
1624 NH(CO)N(CH ₂ CH ₂) ₂ O 3-hydroxymethylene-phenylethyl 1625 NH(CO)N(CH ₂ CH ₂) ₂ O 3-aminomethylene-phenylethyl 1626 NH(CO)N(CH ₂ CH ₂) ₂ O 3-tetrazolephenylethyl 1627 NH(CO)N(CH ₂ CH ₂) ₂ O 3-tertbutylamino-sulfonylphenylethyl 1628 NH(CO)N(CH ₂ CH ₂) ₂ O 3-aminosulfonyl-phenylethyl 1629 NH(CO)N(CH ₂ CH ₂) ₂ O 3-methoxyphenylethyl 1630 tert-BuCONH H 1631 tert-BuCONH methyl 1632 tert-BuCONH ethyl 1633 tert-BuCONH n-propyl 1634 tert-BuCONH n-butyl	1			
Phenylethyl	1624	NH (CO) N (CH ₂ CH ₂) 2O	3-hydroxymethylene-	
phenylethyl			phenylethyl	
1626 NH (CO)N (CH ₂ CH ₂) ₂ O 3-tetrazolephenylethyl 1627 NH (CO)N (CH ₂ CH ₂) ₂ O 3-tertbutylamino-sulfonylphenylethyl 1628 NH (CO)N (CH ₂ CH ₂) ₂ O 3-aminosulfonyl-phenylethyl 1629 NH (CO)N (CH ₂ CH ₂) ₂ O 3-methoxyphenylethyl 1630 tert-Buconh H 1631 tert-Buconh methyl 1632 tert-Buconh ethyl 1633 tert-Buconh n-propyl 1634 tert-Buconh n-butyl	1625	NH (CO) N (CH ₂ CH ₂) 2O		
1627 NH (CO) N (CH ₂ CH ₂) 2O 3-tertbutylamino-sulfonylphenylethyl 1628 NH (CO) N (CH ₂ CH ₂) 2O 3-aminosulfonyl-phenylethyl 1629 NH (CO) N (CH ₂ CH ₂) 2O 3-methoxyphenylethyl 1630 tert-Buconh H 1631 tert-Buconh methyl 1632 tert-Buconh ethyl 1633 tert-Buconh n-propyl 1634 tert-Buconh n-butyl				
sulfonylphenylethyl 1628 NH(CO)N(CH ₂ CH ₂) ₂ O 3-aminosulfonyl-phenylethyl 1629 NH(CO)N(CH ₂ CH ₂) ₂ O 3-methoxyphenylethyl 1630 tert-Buconh H 1631 tert-Buconh methyl 1632 tert-Buconh ethyl 1633 tert-Buconh n-propyl 1634 tert-Buconh n-butyl				
1628 NH(CO)N(CH ₂ CH ₂) ₂ O 3-aminosulfonyl-phenylethyl 1629 NH(CO)N(CH ₂ CH ₂) ₂ O 3-methoxyphenylethyl 1630 tert-Buconh H 1631 tert-Buconh methyl 1632 tert-Buconh ethyl 1633 tert-Buconh n-propyl 1634 tert-Buconh n-butyl	1627	NH (CO) N (CH ₂ CH ₂) ₂ O		
1629 NH(CO)N(CH2CH2)2O 3-methoxyphenylethyl 1630 tert-Buconh H 1631 tert-Buconh methyl 1632 tert-Buconh ethyl 1633 tert-Buconh n-propyl 1634 tert-Buconh n-butyl	1620	NH (CO) N (CH-CH-)-O		
1630 tert-BuCONH H 1631 tert-BuCONH methyl 1632 tert-BuCONH ethyl 1633 tert-BuCONH n-propyl 1634 tert-BuCONH n-butyl				
1631				
1632 tert-BuCONH ethyl 1633 tert-BuCONH n-propyl 1634 tert-BuCONH n-butyl		A CONTRACTOR OF THE CONTRACTOR		
1633 tert-BuCONH n-propyl 1634 tert-BuCONH n-butyl				
1634 tert-BuCONH n-butyl				
			n-pentyl	

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1636	tert-BuCONH	n-nexanyl	——
1637	tert-BuCONH	n-heptanyl	
1638	tert-BuCONH	isopropyl	
1639	tert-BuCONH_	tert-butyl	
1640	tert-BuCONH	cyclopropy1	
1641	tert-BuCONH	cyclobutanyl	
1642	tert-BuCONH	cyclpentanyl	
1643	tert-BuCONH	cyclohexanyl	
	tert-BuCONH	cycloheptanyl	
1644		phenyl	
1645	tert-BuCONH		
1646	tert-BuCONH	phenvlmethyl	
1647	tert-BuCONH	3-hydroxyphenyl	
1648	tert-BuCONH	3-hydroxy-4-methoxyphenyl	
1649	tert-BuCONH	3-fluorophenyl	
1650	tert-BuCONH	3-chlorophenyl	
1651	tert-BuCONH	3-nitrophenyl	·
1652	tert-BuCONH	3-aminopheny1	
1653	tert-BuCONH	3-methyl-sulfonamidephenyl	
1654	tert-BuCONH	3-trifluoro-	
1034	, , , , , , , , , , , , , , , , , , ,	methylsulfonamidephenyl	•
1655	tert-BuCONH	3-Ac-NHphenyl	
1656	tert-BuCONH	3-Boc-NHphenyl	
		3-Cbz-NHphenyl	
1657	tert-BuCONH	3-cb2-NAphenyl 3-aminomethylenephenyl	-
1658	tert-BuCONH	3-aminomethylenephenyl	
1659	tert-BuCONH		
1660	tert-BuCONH	3-cyanophenyl	
1661	tert-BuCONH	3-cyanomethylphenyl	
1662	tert-BuCONH	3-hydroxy-methylenephenyl	
1663	tert-BuCONH	3-carboxylphenyl	
1664	tert-BuCONH	3-mercaptophenyl	
1665	tert-BuCONH	3-methoxyphenyl	
1666	tert-BuCONH	3,4-methylenedioxophenyl	
1667	tert-BuCONH	3-tetrazolephenyl	
1668	tert-BuCONH	3-aminosulfonylphenyl	
1669	tert-BuCONH	3-methylamino-	
		sulfonylphenyl	
1670	tert-BuCONH	3-ethylamino-sulfonylphenyl	
1671	tert-BuCONH	3-tert-butylamino-	
		sulfonylphenyl	
1672	tert-BuCONH	3-methylsulfonylphenyl	
1673	tert-BuCONH	4-methoxyphenyl	
1674	tert-BuCONH	4-phenylphenyl	
1675	tert-BuCONH	4-(2-hydroxymethylene-	
10/3		phenyl)-phenyl	
1676	tert-BuCONH	4-(2-tertbutylamino-	
10,0	1020 2400	sufonylphenyl)-phenyl	
1677	tert-BuCONH	4-(2-methylamino-	
1 20,,	0020 24001	sufonylphenyl)-phenyl	
1678	tert-BuCONH	4-(2-ethylamino-	
1078	l cere bacosas	sufonylphenyl)-phenyl	
1679	tert-BuCONH	4-(2-aminosufonyl-phenyl)-	
10/3	CCTC Dacoini	phenyl	
1680	tert-BuCONH	4-(2-chlorophenyl)-phenyl	
1681	tert-BuCONH	4-(2-fluorophenyl)-phenyl	
1682	tert-BuCONH	4-(2,4-dichlorophenyl)-	
1082	Cerc-Buconn	phenyl	
1002	Town BucONU	4-(2,6-dichlorophenyl)-	
1683	tert-BuCONH	phenyl	
1004	tert-BuCONH	4-(3,5-dichlorophenyl)-	
1684	tert-Buconn	phenyl	
4.55	han Bugowi	4-(2,3-dichlorophenyl)-	
1685	tert-BuCONH	phenyl	
	1	4-(2-methylphenyl)-phenyl	
1686	tert-BuCONH	4-(7-merulandi)-bijenat	

1687	tert-BuCONH	4-(2-tetrazole-phenyl)-	1
		phenyl	
1688	tert-BuCONH	4-(2-methoxy-phenyl)-phenyl	
1689	tert-BuCONH	4-(2-tmethyl-phenyl)-phenyl	
1690	tert-BuCONH	4-(2-formyl-phenyl)-phenyl	
1691	tert-BuCONH	4-(2-amino-phenyl)-phenyl	
1692	tert-BuCONH	4-(2-methylamino-phenyl)- phenyl	
1693	tert-BuCONH	4-(2-ethylamino-phenyl)- phenyl	
1694	tert-BuCONH	4-(2-propylamino-phenyl)- phenyl	
1695	tert-BuCONH	4-(2-methylsulfonylamino- phenyl)-phenyl	
1696	tert-BuCONH	4-(2-	$\neg \neg$
1090	Cerc-buconn	trifluoromethylsulfonyl- amino-phenyl)-phenyl	.
1.605	Town Buconu	4-(3-methylphenyl)-phenyl	
1697	tert-BuCONH	4-(3-isopropylphenyl)-	
1698	tert-BuCONH	phenyl	
1699	tert-BuCONH	4-(3-	
		trifluoromethylsulfonyl-	
		amino-phenyl)-phenyl	
1700	tert-BuCONH	4-(3-methylsulfonylamino-	
		phenyl)-phenyl	
1701	tert-BuCONH	4-(3-amino-phenyl)-phenyl	
1702	tert-BuCONH	4-(3-nitro-phenyl)-phenyl	
1703	tert-BuCONH	2-pyridyl	
1704	tert-BuCONH	3-pyridyl	
1705	tert-BuCONH	4-pyridyl	
1706	tert-BuCONH	3-amino-4-pyridyl	
1707	tert-BuCONH	3-hydroxy-4-pyridyl	
1708	tert-BuCONH	3-imidazole	
1709	tert-BuCONH	2-nitro-3-imidazole	
1710	tert-BuCONH	5-thiazole	
1711	tert-BuCONH	5-oxazole	
1712	tert-BuCONH	4-pyazole	
1713	tert-BuCONH	phenylethyl	
1714	tert-BuCONH	2-aminophenylethyl	444
1715	tert-BuCONH	2-methylsulfonylamino-	
		phenylethyl	
1716	tert-BuCONH		
		trifluoromethylsulfonylamin o-phenylethyl	
1717	tert-BuCONH	2-hydroxymethylene-	
		phenylethyl	
1718	tert-BuCONH	2-aminomethylene- phenylethyl	
1719	tert-BuCONH	2-tetrazolephenylethyl	
1720	tert-BuCONH	2-tert-butylamino-	
		sulfonylphenylethyl	
1721	tert-BuCONH	2-aminosulfonyl-phenylethyl	
1722	tert-BuCONH	2-methoxyphenylethyl	
1723	tert-BuCONH	3-aminophenylethyl	
1724	tert-BuCONH	3-methylsulfonylamino- phenylethyl	
122-	D CO171	phenylethyl 3-	
1725	tert-BuCONH	trifluoromethylsulfonylamin	
		o-phenylethyl	
1726	tert-BuCONH	3-hydroxymethylene- phenylethyl	
1727	tert-BuCONH	3-aminomethylene- phenylethyl	
1728	tert-BuCONH	3-tetrazolephenylethyl	
1/40	CELC-DUCOM!	J CCCL WEGICPHOLITZ COMPLET	

1729	tert-BuCONH	3-tert-butylamino-
-/		sulfonylphenylethyl
1730	tert-BuCONH	3-aminosulfonyl-phenylethyl
1731	tert-BuCONH	3-methoxyphenylethyl
1732	C-C ₃ H ₅ CONH	Н
1733	C-C ₃ H ₅ CONH	methyl
1734	C-C3H5CONH	ethyl
1735	C-C3H5CONH	n-propyl
1736	c-C ₃ H ₅ CONH	n-butyl
1737	C-C ₃ H ₅ CONH	n-pentyl
1738	C-C ₃ H ₅ CONH	n-hexanyl
1739	C-C ₃ H ₅ CONH	n-heptanyl
1740	C-C ₃ H ₅ CONH	isopropyl
1741	c-C ₃ H ₅ CONH	tert-butyl
1742	c-C ₃ H ₅ CONH	cyclopropyl
1743	C-C ₃ H ₅ CONH	cyclobutanyl
1744	C-C ₃ H ₅ CONH	cyclpentanyl
1745	C-C ₃ H ₅ CONH	cyclohexanyl
1746	C-C ₃ H ₅ CONH	cycloheptanyl
1747	C-C ₃ H ₅ CONH	phenyl
1748	C-C ₃ H ₅ CONH	phenylmethyl
1749	C-C ₃ H ₅ CONH	3-hydroxyphenyl
1750	c-C ₃ H ₅ CONH	3-hydroxy-4-methoxyphenyl
1751	c-C ₃ H ₅ CONH	3-fluorophenyl
1752	C-C ₃ H ₅ CONH	3-chlorophenyl
1753	C-C3H5CONH	3-nitrophenyl
1754	C-C ₃ H ₅ CONH	3-aminophenyl
1755	C-C3H5CONH	3-methyl-sulfonamidephenyl
1756	C-C ₃ H ₅ CONH	3-trifluoro- methylsulfonamidephenyl
1757	C-C3H5CONH	3-Ac-NHphenyl
1758	C-C3H5CONH	3-Boc-NHphenyl
1759	C-C ₃ H ₅ CONH	3-Cbz-NHphenyl
1760	C-C ₃ H ₅ CONH	3-aminomethylenephenyl
1761	C-C ₃ H ₅ CONH	3-aminoethylenephenyl
1762	C-C ₃ H ₅ CONH	3-cyanophenyl
1763	C-C3H5CONH	3-cyanomethylphenyl
1764	C-C ₃ H ₅ CONH	3-hydroxy-methylenephenyl
1765	C-C3H5CONH	3-carboxylphenyl
1766	C-C3H5CONH	3-mercaptopheny1
1767	C-C ₃ H ₅ CONH	3-methoxyphenyl
1768	C-C3H5CONH	3,4-methylenedioxophenyl
1769	C-C3H5CONH	3-tetrazolephenyl
1770	C-C3H5CONH	3-aminosulfonylphenyl
1771	C-C ₃ H ₅ CONH	3-methylamino-
		sulfonylphenyl
1772	C-C3H5CONH	3-ethylamino-sulfonylphenyl
1773	C-C3H5CONH	3-tertbutylamino-
		sulfonylphenyl
1774	c-C ₃ H ₅ CONH	3-methylsulfonylphenyl
1775	c-C ₃ H ₅ CONH	4-methoxyphenyl
1776	c-C ₃ H ₅ CONH	4-phenylphenyl
1777	c-C ₃ H ₅ CONH	4-(2-hydroxymethylene- phenyl)-phenyl
1778	C-C ₃ H ₅ CONH	4-(2-tertbutylamino- sufonylphenyl)-phenyl
1779	C-C3H5CONH	4-(2-methylamino-
		sufonylphenyl)-phenyl

1780	C-C3H5CONH	4-(2-ethylamino-	
		sufonylphenyl)-phenyl	
1781	C-C3H5CONH	4-(2-aminosufonyl-phenyl)-	
1782	C-C3H5CONH	phenyl	
1783	C-C3H5CONH	4-(2-chlorophenyl)-phenyl 4-(2-fluorophenyl)-phenyl	
1784	C-C3H5CONH	4-(2-fittorophenyl)-phenyl 4-(2,4-dichlorophenyl)-	
1704	C-C3H5CONH	phenyl	
1785	C-C3H5CONH	4-(2,6-dichlorophenyl)-	
		phenvl	
1786	c-C3H5CONH	4-(3,5-dichlorophenyl)-	
1787	C-C3H5CONH	phenyl 4-(2,3-dichlorophenyl)-	
		phenyl	
1788	c-C ₃ H ₅ CONH	4-(2-methylphenyl)-phenyl	
1789	C-C3H5CONH	4-(2-tetrazole-phenyl)-	
		pheny1	
1790	c-C ₃ H ₅ CONH	4-(2-methoxy-phenyl)-phenyl	
1791	C-C ₃ H ₅ CONH	4-(2-tmethyl-phenyl)-phenyl	
1792	c-C ₃ H ₅ CONH	4-(2-formyl-phenyl)-phenyl	
1793	c-C ₃ H ₅ CONH	4-(2-amino-phenyl)-phenyl	
1794	c-C ₃ H ₅ CONH	4-(2-methylamino-phenyl)- phenyl	
1795	C-C3H5CONH	4-(2-ethylamino-phenyl)-	
		phenyl	
1796	c-C ₃ H ₅ CONH	4-(2-propylamino-phenyl)-	
1707	- C !! CO!!!	phenyl	
1797	c-C ₃ H ₅ CONH	4-(2-methylsulfonyl-amino- phenyl)-phenyl	
1798	c-C ₃ H ₅ CONH	4-(2-	
		trifluoromethylsulfonyl-	
1700		amino-phenyl)-phenyl	
1799	c-C ₃ H ₅ CONH	4-(3-methylphenyl)-phenyl	-
1800	c-C ₃ H ₅ CONH	4-(3-isopropylphenyl)- phenyl	
1801	c-C ₃ H ₅ CONH	4-(3	
	_	trifluoromethylsulfonyl-	
1802	C U CONT	amino-phenyl)-phenyl	
1802	c-C ₃ H ₅ CONH	4-(3-methylsulfonyl-amino- phenyl)-phenyl	
1803	c-C ₃ H ₅ CONH	4-(3-amino-phenyl)-phenyl	
1804	C-C ₃ H ₅ CONH	4-(3-nitro-phenyl)-phenyl	
1805	c-C ₃ H ₅ CONH	2-pyridyl	
1806	c-C ₃ H ₅ CONH	3-pyridyl	
1807	c-C ₃ H ₅ CONH	4-pyridyl	
1808	C-C3H5CONH	3-amino-4-pyridyl	
1809	c-C ₃ H ₅ CONH	3-hydroxy-4-pyridyl	
1810	C-C3H5CONH	3-imidazole	
1811	c-C ₃ H ₅ CONH	2-nitro-3-imidazole	
1812	c-C ₃ H ₅ CONH	5-thiazole	
1813	c-C ₃ H ₅ CONH	5-oxazole	
1814	C-C3H5CONH	4-pyazole	
1815	C-C3H5CONH	phenylethyl	
1816	C-C3H5CONH	2-aminophenylethyl	
1817	C-C3H5CONH	2-methylsulfonylamino-	
1818	C H CONT	phenylethyl	
1818	c-C ₃ H ₅ CONH	2- trifluoromethylsulfonylamin	
		o-phenylethyl	
1819	C-C3H5CONH	2-hydroxymethylene-	
		phenylethyl	

1820	C-C3H5CONH	2-aminomethylene-
		<u>phenylethyl</u>
1821	C-C ₃ H ₅ CONH	2-tetracolephenylethyl
1822	C-C3H5CONH	2-tert-butylamino-
		sulfonylphenylethyl
1823	c-C ₃ H ₅ CONH	2-aminosulfonyl-phenylethyl
1824	C-C ₃ H ₅ CONH	2-methoxyphenylethyl
1825	. c-C ₃ H ₅ CONH	3-aminophenylethyl
1826	c-C ₃ H ₅ CONH	3-methylsulfonylamino-
		phenylethyl
1827	C-C ₃ H ₅ CONH	3-
		trifluoromethylsulfonylamin
		o-phenylethyl
1828	c-C ₃ H ₅ CONH	3-hydroxymethylene-
		phenylethyl
1829	C-C ₃ H ₅ CONH	3-aminomethylene-
		phenylethyl
1830	C-C ₃ H ₅ CONH	3-tetrazolephenylethyl
1831	c-C ₃ H ₅ CONH	3-tert-butylamino-
		sulfonylphenylethyl
1832	c-C3H5CONH	3-aminosulfonyl-phenylethyl
1833	C-C ₃ H ₅ CONH	3-methox/phenylethyl
	C-C3A5CONA	3-mechon, pheny teeny t
1834		
1835	عهد	H
1836	"	methyl
1837	u	ethyl
1838	"	n-propyl
1839	"	n-butyl
1840	"	n-pentyl
1841	"	n-hexanyl
1842	,,	n-heptanyl
1843	"	isopropyl
1844	п	tert-butyl
1845	H.	cvclopropyl
1846	*	cyclobutanyl
1847	#	cyclpentanyl
1848		cyclohexanyl
1849	u u	cycloheptanyl
1850	· · · · · · · · · · · · · · · · · · ·	phenyl
	"	phenylmethyl
1851	u	
1852	u u	3-hydroxyphenyl 3-hydroxy-4-methoxyphenyl
1853	"	
1854		3-fluorophenyl
1855	<u>"</u>	3-chlorophenyl
1856	"	3-nitrophenyl
1857		3-aminophenyl
1858	u .	3-methyl-sulfonamidephenyl
1859	"	3-trifluoro-
		methylsulfonamidephenyl
1860	. "	3-Ac-NHphenyl
1861	"	3-Boc-NHphenyl
1862	"	3-Cbz-NHphenyl
1863	"	3-aminomethylenephenyl
1864	"	3-aminoethylenephenyl
1865	"	3-cyanopheny1
1866		3-cyanomethylphenyl
	"	3-hydroxy-methylenephenyl
1867		
1868		3-carboxylphenyl
1869	"	3-mercaptophenyl
1870	"	3-methoxyphenyl
1871	"	3,4-methylenedioxophenyl
1872	,	3-tetrazolephenyl
1873	"	3-aminosulfonylphenyl

1874	u	3-methylamino-
		sulfon; lphenyl
1875		3-ethylamine-sulfonylphenyl
1876	4	3-tert-butylamino-
		sulfon; lphenyl
1877		3-methylsulfonylphenyl
1878		4-methoxyphenyl
1879	#	4-phenylphenyl
1880	"	4-(2-hydroxymethylene-
		phen;l)-phenyl
1881		4-(2-tertbutylamino-
		sufonylphenyl)-phenyl
1882	u	4-(2-methylamino-
		sufonylphenyl)-phenyl
1883	"	4-(2-ethylamino-
		sufonylphenyl)-phenyl
1884	u	4-(2-aminosufonyl-phenyl)-
		phenyl
1885	u	4-(2-chlorophenyl)-phenyl
1886	u .	4-(2-fluorophenyl)-phenyl
1887	u	4-(2,4-dichlorophenyl)-
		phenyl
1888	и	4-(2,6-dichlorophenyl)-
		phenyl
1889	#	4-(3,5-dichlorophenyl)-
		phenyl
1890	n	4-(2,3-dichlorophenyl)-
		phenyl
1891		4-(2-methylphenyl)-phenyl
1892	u	4-(2-tetrazole-phenyl)-
		pheny1
1893	#	4-(2-methoxy-phenyl)-phenyl
1894	ıı	4-(2-tmethyl-phenyl)-phenyl
1895	u	4-(2-formyl-phenyl)-phenyl
1896	"	4-(2-amino-phenyl)-phenyl
1897	11	4-(2-methylamino-phenyl)-
		phenvl
1898	"	4-(2-ethylamino-phenyl)-
		phenyl
1899	"	4-(2-propylamino-phenyl)-
		phenyl
1900	u	4-(2-methylsulfonyl-amino-
		phenyl)-phenyl
1901	"	4-(2-
		trifluoromethylsulfonyl-
		amino-phenyl)-phenyl
1902	u	4-(3-methylphenyl)-phenyl
1903	u	4-(3-isopropylphenyl)-
		phenyl
1904	· · · · · · · · · · · · · · · · · · ·	pheny1 4-(3-
		trifluoromethylsulfonyl-
		amino-phenyl)-phenyl
1905	u	4-(3-methylsulfonyl-amino-
		phenyi)-phenyl
1906	H	4-(3-amino-phenyl)-phenyl
1907	"	4-(3-nitro-phenyl)-phenyl
1908	"	2-pyridyl
1909	· · · · · · · · · · · · · · · · · · ·	3-pyridyl
1910	"	4-pyridyl
1911	и .	3-amino-4-pyridyl
1912		
	"	
	"	3-hydrox:-4-pyridyl
1913	u	3-imidazole
1913 1914	<i>u</i>	3-imidazole 2-nitro-3-imidazole
1913	u	3-imidazole

1917		4-wazole
1918	μ	phenylethyl
1919	μ	2-aminophenylethyl
1920	#	2-methylsulfonylamino-
		phen/lethyl
1921	"	2-
		trifluoromethylsulfonylamin
		o-phemylethyl
1922	u	2-hydroxymethylene-
		phenylethy1
1923	<i>w</i>	2-aminomethylene-
		phen:lethyl
1924	n	2-tetrazolephenylethyl
1925	"	2-tert-butylamino-
		sulfonylphenylethyl
1926	u	2-aminosulfonyl-phenylethyl
1927	"	2-methox;phenylethyl
1928	#	3-aminophenylethyl
1929	"	3-methylsulfonylamino-
		phen:lethyl
1930	u	3 -
		trifluoromethylsulfonylamin
		o-phenylethyl
1931	H	3-hydroxymethylene-
		phen; lethyl
1932	u	3-aminomethylene-
		phen:lethyl
1933	"	3-tetrazolephenylethyl
1934	,,	3-tertbutylamino-
		sulfonylphenylethyl
1935	и ,	3-aminosulfonyl-phenylethyl
1936	н	3-methow;phenylethyl

Ex#	R3	Mo	F#		
2000	H	Ms	Ex#	R3	Ms
2000	n 1		2001	4-(2-	
		- 1	{	aminosufonylphenyl)-	
2002				phenyl	
2002	methyl		2003	4-(2-chlorophenyl)-	
				phenyl	
2004	ethyl		2005	4-(2-fluorophenyl)-	
				phenyl	
2006	n-propyl		2007	4-(2,4-	
				dichlorophenyl)-phenyl	
2008	n-butyl		2009	4-(2,6-	
			1 2003		
2010	n-pentyl		2011	dichlorophenyl)-phenyl	
	" " "		1 2011	4-(3,5-	
2012	n-hexanyl		1 2012	dichlorophenyl)-phenyl	
2012	I mettexatty1		2013	4-(2,3-	
2014				dichlorophenyl)-phenyl	
2014	n-heptanyl	İ	2015	4-(2-methylphenyl)-	
				phenyl	
2016	isopropyl		2017	4-(2-tetrazole-	
				phenyl)-phenyl	
2018	tert-butyl		2019	4-(2-methoxy-phenyl)-	
			İ	phenyl	
2020	cyclopropyl		2021	4-(2-tmethyl-phenyl)-	
1				phenyl	
2022	cyclobutanyl		2023	4-(2-formyl-phenyl)-	
	o y stobbed in y 1		2023		
2024	aug) pontanu)		2005	phenyl	
2024	cyclpentanyl	1	2025	4-(2-amino-phenyl)-	
2225				phenyl	
2026	cyclohexanyl	- 1	2027	4-(2-methylamino-	
				phenyl)-phenyl	
2028	cycloheptanyl		2029	4-(2-ethylamino-	
			1	phenyl)-phenyl	
2030	phenyl		2031	4-(2-propylamino-	
		- 1		phenyl)-phenyl	
2032	phenylmethyl		2033	4-(2-	
		1		methylsulfonylamino-	•
		- 1	- [phenyl)-phenyl	
2034	3-hydroxyphenyl		2035	4-(2-	
- • • •	.,,,,,,,	1		trifluoromethylsulfony	
		- 1	1	l-amino-phenyl)-phenyl	
2036	3-hydroxy-4-		2037	4 (2	
2030		- 1	2037	4-(3-methylphenyl)-	
0000	methoxyphenyl		-	phenyl	
2038	3-fluorophenyl	- 1	2039	4-(3-isopropylphenyl)-	
				phenyl	
2040	3-chlorophenyl		2041	4-(3-	
		- 1		trifluoromethylsulfony	
		[l-amino-phenyl)-phenyl	
2042	3-nitrophenyl		2043	4-(3-	
	-	1		methylsulfonylamino-	
1				phenyl)-phenyl	
2044	3-aminophenyl		2045	4-(3-amino-phenyl)-	
				phenyl	
2046	3-	-	2047	4-(3-nitro-phenyl)-	
	methylsulfonamidepheny	1	2047	phenyl	
	1 1			huenat	
3040	3 5 5 5 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
2048	3-trifluoro-methyl-	1	2049	2-pyridyl	
	sulfonamidephenyl				
2050	3-Ac-NHphenyl		2051	3-pyridyl	
2052	3-Boc-NHphenyl		2053	4-pyridyl	
2054	3-Cbz-NHphenyl		2055	3-amino-4-pyridyl	
					

2056	3-aminomethylene-		2057	3-hydroxy-4-pyridyl	
	phenyl				
2058	3-amino-ethylenephenyl		2059	3-imidazole	
2060	3-cyanophenyl		2061	2-nitro-3-imidazole	
2062	3-cyanomethylphenyl		2063	5-thiazole	
2064	3-hydroxy-		2065	5-oxazole	
	methylenephenyl				
2066	3-carboxylphenyl		2067	4-pyazole	
2068	3-mercaptophenyl		2069	phenylethyl	
2070	3-methoxyphenyl		2071	2-aminophenylethyl	
2072	3,4-methylenedioxo-		2073	2-methylsulfonyl-	
	phenyl	1		amino-phenylethyl	
2074	3-tetrazolephenyl		2075	2-	
				trifluoromethylsulfony	
				lamino-phenylethyl	
2076	3-aminosulfonylphenyl		2077	2-hydroxymethylene-	
	, -	1		phenylethyl	
2078	3-methylamino-		2079	2-aminomethylene-	
	sulfonylphenyl		20,5	phenylethyl	
2080	3-ethylamino-		2081	2-tetrazole-	
	sulfonylphenyl		2001	phenylethyl	
2082	3-tert-butylamino-		2083	2-tertbutylamino-	
	sulfonylphenyl		2005	sulfonylphenylethyl	
2084	3-methylsulfonyl-		2085	2-aminosulfonyl-	
	phenyl		2003	phenylethyl	
2086	4-methoxyphenyl		2087	2-methoxy-phenylethyl	
2088	4-phenylphenyl		2089	3-aminophenylethyl	
2090	4-(2-hydroxymethylene-		2091	3-methylsulfonyl-	
2030	phenyl)-phenyl		2031	amino-phenylethyl	
2092	4-(2-tert-		2093	amino-phenylethyl	
	butylaminosufonylpheny			trifluoromethylsulfony	
	l)-phenyl			lamino-phenylethyl	
2094	4-(2-methylamino-		2095	3-hydroxymethylene-	
	sufonylphenyl) -phenyl		2000	phenylethyl	
2096	4-(2-ethylamino-	-	2097	3-aminomethylene-	
2030	sufonylphenyl) -phenyl		2037	phenylethyl	
2098	bulonyiphenyi/ phenyi		2099	3-tetrazole-	
			2033	phenylethyl	
2100			2101	3-tert-butylamino-	
2100			2101	sulfonylphenylethyl	
2102			2103	3-aminosulfonyl-	
2102	1		2103	phenylethyl	
2104			2105	3-methoxy-phenylethyl	
2101	<u> </u>		2103	2 wernowa-businaterual	

Table 4

$$R_{2} \xrightarrow{CO_{2}H} R_{3} \xrightarrow{H} OH$$

$$X = NH, CH_{2}$$

$$I$$

$$\begin{array}{c|c} & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$$

X= H, NH_2 , CO_2H , CH_2CO_2H , C1, F, N = N, CN, CH_2NH_2

X= H, NH_2 , CO_2H , CH_2CO_2H , C1, F, NH_2 NH_2 NH_2

$$\begin{array}{c|c} CO_2H & R_3 \\ \hline \\ O & O \\ \end{array}$$

Ex#	R2	R3	
2500	n-Bu	н	
2501	"	methyl	
2502	"	ethyl	
2503	"	n-propyl	
2504	"	n-butyl	
2505	"	n-pentyl	
2506	"	n-hexanyl	
2507	"	n-heptanyl	
2508	"	isopropyl	
2509	"	tert-butyl	
2510	"	cyclopropyl	
2511	"	cyclobutanyl	
2512	"	cyclpentanyl	

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7533			
2513	"	cyclohexanyl	
2514	"	cycloheptanyl	
2515	"	phenyl	
2516	,,	phenylmethyl	
2517	"	3-hydroxyphenyl	
2518	"	3-hydroxy-4-methoxyphenyl	
2519	. "	3-fluorophenyl	
2520	"	3-chlorophenyl	
2521	"	3-mitmenhamil	
2522	"	3-nitrophenyl	·
2523	W	3-aminophenyl	
2524	"	3-methyl-sulfonamidephenyl	
2524	"	3-trifluoro-methyl-	i
2525	"	sulfonamidephenyl	
2525		3-Ac-NHphenyl	
2526	"	3-Boc-NHphenyl	
2527		3-Cbz-NHphenyl	-
2528	"	3-aminomethylenephenyl	
2529	"	3-aminoethylenephenyl	
2530	W.	3-cyanophenyl	
2531	"	3-cyanomethylphenyl	
2532	"	3-hydroxy-methylenephenyl	
2533	"		
2534	"	3-carboxylphenyl	
	"	3-mercaptophenyl	
2535	"	3-methoxyphenyl	
2536		3,4-methylene-dioxophenyl	
2537	"	3-tetrazolephenyl	
2538	"	3-aminosulfonylphenyl	
2539	"	3-methylamino-	
		sulfonylphenyl	
2540	"	3-ethylamino-sulfonylphenyl	
2541	. "	3-tertbutylamino-	
		sulfonylphenyl	
2542	"	3-methylsulfonylphenyl	
2543	"	4-methoxyphenyl	
2544	"	4-methoxyphenyl 4-phenylphenyl	
2545	"	4-phenyiphenyi	
2343		4-(2-hydroxymethylene-	
2546	"	phenyl)-phenyl	
2546		4-(2-tertbutylamino-	
0543	<u>'</u>	sufonylphenyl)-phenyl	
2547.	"	4-(2-methylamino-	İ
		sufonylphenyl)-phenyl	
2548	"	4-(2-ethylamino-	
		sufonylphenyl)-phenyl	
2549	"	4-(2-aminosufonyl-phenyl)-	
		phenyl	
2550	"	4-(2-chlorophenyl)-phenyl	
2551	"	4-(2-fluorophenyl)-phenyl	
2552	"	4-(2,4-dichlorophenyl)-	
	•	phenyl	
2553	"	4-(2,6-dichlorophenyl)-	
-333			
2554		phenyl	
2334		4-(3,5-dichlorophenyl)-	
2555	"	phenyl	
2555	"	4-(2,3-dichlorophenyl)-	
1		phenyl	
2556	"	4-(2-methylphenyl)-phenyl	
2557	"	4-(2-tetrazole-phenyl)-	
		phenyl	
2558	"	4-(2-methoxy-phenyl)-phenyl	
2559	"	4-(2-tmethyl-phenyl)-phenyl	
2560	"	4-(2-formyl-phenyl)-phenyl	
2561	"	4-(2-amino-phenyl)-phenyl	
		c. c F.iony1/ Piteny1	

2562	"	4-(2-methylamino-phenyl)-	
<u>L</u>		phenyl	
2563	"	4-(2-ethylamino-phenyl)-	
		4 (2 ectiviamino-phenyi)	
2564	W .	phenyl	
2303		4-(2-propylamino-phenyl)-	
05.55		phenyl	•
2565	,,	4-(2-methylsulfonylamino-	
		phenyl)-phenyl	
2566	"	phenyl)-phenyl 4-(2-	
		trifluoromethylsulfonyl-	
		amino-phenyl)-phenyl	
2567	"	4./2 motherly1/-pheny1	
2568	"	4-(3-methylphenyl)-phenyl	
2500		4-(3-isopropylphenyl)-	
		phenyl	
2569	"	phenyl 4-(3-	
		trifluoromethylsulfonyl-	
		amino-phenyl)-phenyl	
2570		4-(3-methylsulfonylamino-	
2571	***	phenyl)-phenyl	_
		4-(3-amino-phenyl)-phenyl	
2572	"	4-(3-nitro-phenyl)-phenyl	
2573	"	2-pyridyl	
2574	"	3-pyridyl	
2575	"	4-pyridyl	
2576	"		
	"	3-amino-4-pyridyl	
2577		3-hydroxy-4-pyridyl	_
2578		3-imidazole	
2579	"	2-nitro-3-imidazole	
2580	"	5-thiazole	
2581		5-oxazole	
	"		
2582		4-pyazole	
2583	"	phenylethyl	
2584	"	2-aminophenylethyl	
2585	"	2-methylsulfonylamino-	
I		phenylethyl	
2586		2-trifluoromethyl-	
2300		sulfamilaria abandathul	
7507		sulfonylamino-phenylethyl	
2587	"	2-hydroxy-	
		methylenephenylethyl	
2588	"	2-aminomethylene-	
1		phenylethyl	
2589	"	2-tetrazolephenylethyl	
2590	"	2-tertbutylamino-	
2330		cul forul phonul cabul	
2501		sulfonylphenylethyl	
2591	**	2-aminosulfonyl-phenylethyl	
2592	"	2-methoxyphenylethyl	
2593	"	3-aminophenylethyl	
2594	"	3-methylsulfonylamino-	
		phenylethyl	
2595	"		
2333	·	3-trifluoromethyl-	
		sulfonylamino-phenylethyl	
2596	"	3-hydroxymethylene-	
		phenylethyl	
2597	"	3-aminomethylene-	
		phenylethyl	
2598	"		
		3-tetrazolephenylethyl	
2599	"	3-tertbutylamino-	
		sulfonylphenylethyl	
2600	"	3-aminosulfonyl-phenylethyl	
2601	"	3-methoxyphenylethyl	
2602	''	4-phenylphenylmethyl	
		* *-DHEHVIDAEMVINGCHVI	

0.600			
2603	, ,	4-(2-	
[hydroxymethylenephenyl)-	
0.50		phenylmethyl	_
2604	"	4-(2-tert-butyl-	
		aminosufonyl-phenyl)-	
		phenylmethyl	
2605	"	4-(2-methylamino-	
		sufonylphenyl)-phenylmethyl	
2606	"	4-(2-ethylamino-	
		sufonylphenyl)-phenylmethyl	
2607	**	4-(2-aminosufonylphenyl)-	
		phenylmethyl	
2608	"	phenylmethyl	
2000		4-(2-chlorophenyl)-	
2609		phenylmethyl	
2009		4-(2-fluorophenyl)-	
-		phenylmethyl	
2610	"	4-(2,4-dichlorophenyl)-	
		phenylmethyl	
2611	"	4-(2,6-dichlorophenyl)-	
		phenylmethyl	
2612	"	4-(3,5-dichlorophenyl)-	
		phenylmethyl	
2613	.,	4-(2,3-dichlorophenyl)-	
		phenylmethyl	
2614	"	4-(2-methylphenyl)-	
202.			
2615		phenylmethyl	
2013		4-(2-tetrazole-phenyl)-	
0616	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	phenylmethyl	
2616	**	4-(2-methoxy-phenyl)-	
		phenylmethyl	
2617	W	4-(2-tmethyl-phenyl)-	
		phenylmethyl	
2618	"	4-(2-formyl-phenyl)-	
		phenylmethyl	
2619	"	4-(2-amino-phenyl)-	
		phenylmethyl	
2620	"	4-(2-methylamino-phenyl)-	
		phenylmethyl	
2621	"	4-(2-ethylamino-phenyl)-	
		phenylmethyl	
2622	"	4-(2-propylamino-phenyl)-	
2022			
2622	,,,	phenylmethyl	
2623		4-(2-methylsulfonylamino-	
1 2624		phenyl)-phenylmethyl	
2624	**	4-(2-	
		trifluoromethylsulfonyl-	
		amino-phenyl)-phenylmethyl	
2625	"	4-(3-methylphenyl)-	
		phenylmethyl	
2626	"	4-(3-isopropylphenyl)-	
		phenylmethyl	
2627	"	4-(3-	
		trifluoromethylsulfonyl-	
		amino-phenyl)-phenylmethyl	
2628	"	4-(3-methylsulfonylamino-	
		phenyl) -phenylmethyl	
2629	"	4-(3-amino-phenyl)-	
2023			
2630		phenylmethyl	
2030	···	4-(3-nitro-phenyl)-	
1 2621		phenylmethyl	
2631			
2632	CH ₃	H	
2633	"	methyl	
			

2634	"	ethyl	
2635	"	n-propyl	l ———
2636	"		
2637	"	n-butyl	<u> </u>
		n-pentyl	
2638		n-hexanyl	
2639	"	n-heptanyl	
2640	"	isopropyl	
2641	"		
	,,	tert-butyl	
2642		cyclopropyl	
2643	"	cyclobutanyl	
2644	"	cyclpentanyl	
2645	"	cyclohexanyl	-
2646	"		
	,,	cycloheptanyl	
2647		phenyl	
2648	"	phenylmethyl	
2649	"	3-hydroxyphenyl	
2650	"	3-hydroxy-4-methoxyphenyl	
2651	"	3-nydroxy-4-methoxyphenyr	
		3-fluorophenyl	
2.652	"	3-chlorophenyl	
2653	"	3-nitrophenyl	
2654	"	3-aminophenyl	
2655	"	3 mathyl mulfilm	
	"	3-methyl-sulfonamidephenyl	
2656	"	3-trifluoro-	
L		methylsulfonamidephenyl	
2657	"	3-Ac-NHphenyl	
2658	"	3-Boc-NHphenyl	-
2659	"		
		3-Cbz-NHphenyl	
2660	"	3-aminomethylenephenyl	
2661	"	3-aminoethylenephenyl	
2662	"	3-cyanophenyl	
2663			
	"	3-cyanomethylphenyl	
2664		3-hydroxy-methylenephenyl	
2665	"	3-carboxylphenyl	
2666	"	3-mercaptophenyl	
2667	"	3-methoxyphenyl	
2668	"	3 4 mathulana diawanhanul	
	,,	3,4-methylene-dioxophenyl	
2669		3-tetrazolephenyl	
2670		3-aminosulfonylphenyl	
2671	" .	3-methylamino-	
		sulfonylphenyl	
2672	"	2 otherlands and formulational	
	,,	3-ethylamino-sulfonylphenyl	
2673	"	3-tertbutylamino-	
<u></u>		sulfonylphenyl	
2674	"	3-methylsulfonylphenyl	
2675	"	4-methoxyphenyl	
2676	W		
	"	4-phenylphenyl	
2677	"	4-(2-hydroxymethylene-	
		phenyl)-phenyl	
2678	"	4-(2-tert-butylamino-	
		sufonylphenyl)-phenyl	
2679	"	4-(2-methylamino-	
[20,3	[
- 222		sufonylphenyl)-phenyl	
2680	"	4-(2-ethylamino-	
L	1	sufonylphenyl)-phenyl	
2681	"	4-(2-aminosufonyl-phenyl)-	
2602	"	phenyl	ļ
2682		4-(2-chlorophenyl)-phenyl	
2683	"	4-(2-fluorophenyl)-phenyl	
2684	"	4-(2,4-dichlorophenyl)-	
		phenyl	
2685	"	4-(2,6-dichlorophenyl)-	
2003			
L	L	phenyl	L

2686	"	4-(3,5-dichlorophenyl)-
2687	"	phenyl
2007	"	4-(2,3-dichlorophenyl)-
2688	"	phenyl
2689		4-(2-methylphenyl)-phenyl
2009	"	4-(2-tetrazole-phenyl)-
2690		phenyl
	4	-(2-methoxy-phenyl)-phenyl
2691	4.	-(2-tmethyl-phenyl)-phenyl
2692		-(2-formyl-phenyl)-phenyl
2693	"	4-(2-amino-phenyl)-phenyl
2694	"	4-(2-methylamino-phenyl)-
		phenyl
2695	"	4-(2-ethylamino-phenyl)-
		phenyl
2696	"	4-(2-propylamino-phenyl)-
		phenyl
2697	"	4-(2-methylsulfonylamino-
		phenyl)-phenyl
2698	"	4-(2-
	1	trifluoromethylsulfonyl-
		amino-phenyl)-phenyl
2699	"	4-(3-methylphenyl)-phenyl
2700	"	4-(3-isopropylphenyl)-
		phenyl
2701	"	4-(3-
		trifluoromethylsulfonyl-
		amino-phenyl)-phenyl
2702	w 4	-(3-methylsulfonyl-amino-
		phenyl)-phenyl
2703	"	4-(3-amino-phenyl)-phenyl
2704	"	4-(3-nitro-phenyl)-phenyl
2705	"	2-pyridyl
2706	"	
2707	w v	3-pyridyl
2708	"	4-pyridyl
2709		3-amino-4-pyridyl
	"	3-hydroxy-4-pyridyl
2710	"	3-imidazole
2711	"	2-nitro-3-imidazole
2712		5-thiazole
2713	"	5-oxazole
2714	"	4-pyazole
2715	"	phenylethyl
2716	w .	2-aminophenylethyl
2717	"	2-methylsulfonylamino-
		phenylethyl
2718	"	2-
	t:	rifluoromethylsulfonylamin
		o-phenylethyl
2719	W	2-hydroxymethylene-
		phenylethyl
2720	"	2-aminomethylene-
		phenylethyl
2721	"	2-tetrazolephenylethyl
2722	"	2-tertbutylamino-
		sulfonylphenylethyl
2723	" 2	-aminosulfonyl-phenylethyl
2724	"	2-methoxyphenylethyl
2725	"	3-aminophenylethyl
2726	"	
2120		3-methylsulfonylamino-
		phenylethyl

2727	" 3-trifluoromethyl-
<u> </u>	sulfonylamino-phenylethyl
2728	" 3-hydroxy-
	methylenephenylethyl
2729	" 3-aminomethylene-
	phenylethyl
2730	" 3-tetrazolephenylethyl
2731	" 3-tertbutylamino-
	sulfonylphenylethyl
2732	" 3-aminosulfonyl-phenylethyl
2733	" 3-methoxyphenylethyl
2734	
2735	" 4-phenylphenylmethyl
2,33	" 4-(2-hydroxy-
	methylenephenyl)-
2736	phenylmethyl
2/30	4-(2-tert-
	butylaminosufonyl-phenyl)-
	phenylmethyl
2737	" 4-(2-methylamino-
<u> </u>	sufonylphenyl)-phenylmethyl
2738	" 4-(2-ethylamino-
	sufonylphenyl)-phenylmethyl
2739	" 4-(2-aminosufonyl-phenyl)-
	phenylmethyl
2740	" 4-(2-chlorophenyl)-
	phenylmethyl
2741	" 4-(2-fluorophenyl)-
	phenylmethyl
2742	" 4-(2,4-dichlorophenyl)-
	phenylmethyl
2743	" 4-(2,6-dichlorophenyl)-
2/43	
2744	phenylmethyl
2/44	4-(3,5-dichiorophenyi)-
2745	phenylmethyl
2/45	4-(2,3-dichiorophenyi)-
	phenylmethyl
2746	4-(2-methylphenyl)-
	phenylmethyl
2747	" 4-(2-tetrazole-phenyl)-
	phenylmethyl
2748	" 4-(2-methoxy-phenyl)-
	phenylmethyl
2749	" 4-(2-tmethyl-phenyl)-
	phenylmethyl
2750	" 4-(2-formyl-phenyl)-
	phenylmethyl
2751	" 4-(2-amino-phenyl)-
	phenylmethyl
2752	" 4-(2-methylamino-phenyl)-
52	phenylmethyl
2753	" /- (2-oth) princ-phon) -
2133	4-(z-ethylamino-phenyl)-
2754	phenylmethyl
2754	4-(2-propyramino-phenyi)-
2755	phenylmethyl
2755	i 4-(2-methyrsulfonylamino-
	phenyl)-phenylmethyl
2756	" 4-(2-
	trifluoromethylsulfonyl-
	amino-phenyl)-phenylmethyl
2757	" 4-(3-methylphenyl)-
*	phenylmethyl
2758	" 4-(3-isopropylphenyl)-
	phenylmethyl
	· · · · · · · · · · · · · · · · · · ·

0350			
2759	"	4-(3-	
		trifluoromethylsulfonyl-	
-		amino-phenyl)-phenylmethyl	
2760	"	4-(3-methylsulfonyl-amino-	
		phenyl)-phenylmethyl	i
2761	"	4-(3-amino-phenyl)-	
		phenylmethyl	
2762	"	4-(3-nitro-phenyl)-	
		phenylmethyl	
2763		phenyimethyi	
2764	3-phenylpropyl		
2765	"	H	<u> </u>
2766	"	methyl	<u> </u>
2767	"	ethyl	<u> </u>
2768	***	n-propyl	
2769	"	n-butyl	
	"	n-pentyl	
2770		n-hexanyl	
2771	"	n-heptanyl	
2772	"	isopropyl	
2773	"	tert-butyl	
2774	"	cyclopropyl	
2775	"	cyclobutanyl	
2776	"	cyclpentanyl	
2777	"		
2778	"	cyclohexanyl	
2779	"	cycloheptanyl	
2780	***	phenyl	
2781	"	phenylmethyl	
	<u></u>	3-hydroxyphenyl	
2782	"	3-hydroxy-4-methoxyphenyl	
2783	"	3-fluorophenyl	
2784	"	3-chlorophenyl	
2785	"	3-nitrophenyl	
2786	"	3-aminophenyl	
2787	"	3-methyl-sulfonamidephenyl	
2788	"	3-trifluoro-	
		methylsulfonamidephenyl	
2789	"	3-Ac-NHphenyl	
2790	"	3-Boc-NHphenyl	
2791	"		
2792	"	3-Cbz-NHphenyl	
2793	"	3-aminomethylenephenyl	
2794	,,	3-aminoethylenephenyl	
	"	3-cyanophenyl	
2795	"	3-cyanomethylphenyl	
2796		3-hydroxy-methylenephenyl	
2797	"	3-carboxylphenyl	
2798	"	3-mercaptophenyl	
2799	"	3-methoxyphenyl	
2800	"	3,4-methylene-dioxophenyl	
2801	"	3-tetrazolephenyl	
2802	"	3-aminosulfonylphenyl	
2803	"	3-aminosulfonyiphenyi 3-methylamino-	
		sulfonylphenyl	
2804	"	3-ethylamina aul familiahan	
2805	,,	3-ethylamino-sulfonylphenyl	
2005		3-tertbutylamino-	
2006	"	sulfonylphenyl	
2806		3-methylsulfonylphenyl	
2807	"	4-methoxyphenyl	
2808	. "	4-phenylphenyl	
2809	"	4-(2-hydroxy-	
		methylenephenyl)-phenyl	
2810	"	4-(2-tert-butylamino-	
		sufonylphenyl)-phenyl	.
	······································	A SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AN	

2011			
2811	"	4-(2-methylamino-	
2812		sufonylphenyl)-phenyl	
2012		4-(2-ethylamino-	
2813		sufonylphenyl)-phenyl	
2013		4-(2-aminosufonyl-phenyl)-	_
2814	"	phenyl	···
2815	"	4-(2-chlorophenyl)-phenyl	
2816	"	4-(2-fluorophenyl)-phenyl	
2010		4-(2,4-dichlorophenyl)-	
2817	"	phenyl 4-(2,6-dichlorophenyl)-	
		phenyl	
2818	"	4-(3,5-dichlorophenyl)-	
		phenyl	
2819	"	4-(2,3-dichlorophenyl)-	
		phenyl	
2820	"	4-(2-methylphenyl)-phenyl	
2821	"	4-(2-tetrazole-phenyl)-	
		phenyl	
2822	"	4-(2-methoxy-phenyl)-phenyl	
2823	"	4-(2-tmethyl-phenyl)-phenyl	
2824	,,	4-(2-formyl-phenyl)-phenyl	
2825	W.	4-(2-amino-phenyl)-phenyl	
2826	"	4-(2-methylamino-phenyl)-	
		phenyl	
2827	"	4-(2-ethylamino-phenyl)-	
		phenyl	
2828	"	4-(2-propylamino-phenyl)-	
		phenyl	
2829	"	4-(2-methylsulfonyl-amino-	
		phenyl)-phenyl	
2830	"	4-(2-	
		trifluoromethylsulfonyl-	
		amino-phenyl)-phenyl	
2831	"	4-(3-methylphenyl)-phenyl	
2832	"	4-(3-isopropylphenyl)-	
		phenyl	
2833	"	4-(3-	
		trifluoromethylsulfonyl-	
2834	"	amino-phenyl)-phenyl	
2034		4-(3-methylsulfonyl-amino-	
2835	"	phenyl)-phenyl 4-(3-amino-phenyl)-phenyl	
2836	,,	4-(3-amino-phenyl)-phenyl 4-(3-nitro-phenyl)-phenyl	
2837	"	4-(3-nitro-phenyl)-phenyl	
2838	"	2-pyridyl	
2839	. "	3-pyridyl	
2840	"	4-pyridyl	
2841	"	3-amino-4-pyridyl	
2842	"	3-hydroxy-4-pyridyl	
2843	"	3-imidazole	
2844	- "	2-nitro-3-imidazole 5-thiazole	
2845	"	<u> </u>	
2846	"	5-oxazole	
2847	"	4-pyazole	
2848	"	phenylethyl	
2849	"	2-aminophenylethyl	
2049		2-methylsulfonylamino-	
2850		phenylethyl 2-	
2030		trifluoromethylsulfonylamin	
		o-phenylethyl	
		0-buenaternat	•••

1 2052			
2851	"	2-hydroxymethylene-	
2052		phenylethyl	
2852	" -	2-aminomethylene-	
2052		phenylethyl	
2853	"	2-tetrazolephenylethyl	
2854	"	2-tert-butylamino-	
0055		sulfonylphenylethyl	
2855	"	2-aminosulfonyl-phenylethyl	
2856	"	2-methoxyphenylethyl	
2857	,,	3-aminophenylethyl	
2858	,,	3-methylsulfonylamino-	
		phenylethyl	
2859	"	3-	
1 1		trifluoromethylsulfonylamin	
		o-phenylethyl	
2860	W	3-hydroxymethylene-	
		phenylethyl	-
2861	"	3-aminomethylene-	
		phenylethyl	
2862	"	3-tetrazolephenylethyl	
2863	"	3-tertbutylamino-	
L		sulfonylphenylethyl	
2864	"	3-aminosulfonyl-phenylethyl	
2865	"	3-methoxyphenylethyl	
2866	"	4-phenylphenylmethyl	
2867	"	4-(2-hydroxymethylene-	
	•	phenyl) -phenylmethyl	
2868	"	4-(2-tert-	
		butylaminosufonyl-phenyl)-	
	•	phenylmethyl	
2869		4-(2-methylaminosufonyl-	
		phenyl) -phenylmethyl	
2870	"	4-(2-ethylaminosufonyl-	
		phenyl)-phenylmethyl	
2871	"	4-(2-aminosufonylphenyl)-	
		phenylmethyl	
2872	''	4-(2-chlorophenyl)-	
		phenylmethyl	
2873	"	4-(2-fluorophenyl)-	
		phenylmethyl	
2874	"	4-(2,4-dichlorophenyl)-	
		phenylmethyl	
2875	"	4-(2,6-dichlorophenyl)-	
	,	phenylmethyl	
2876	"	4-(3,5-dichlorophenyl)-	
		phenylmethyl	
2877	"	4-(2,3-dichlorophenyl)-	
		phenylmethyl	
2878		4-(2-methylphenyl)-	
		phenylmethyl	
2879	"	4-(2-tetrazole-phenyl)-	
		phenylmethyl	
2880		4-(2-methoxy-phenyl)-	
		phenylmethyl	
2881	"	4-(2-tmethyl-phenyl)-	
		phenylmethyl	
2882	"	4-(2-formyl-phenyl)-	
2002			
2883	"	phenylmethyl 4-(2-amino-phenyl)-	
2000			
2884	"	phenylmethyl	
2004		4-(2-methylamino-phenyl)-	1
		phenylmethyl	

2885	"		
2005		4-(2-ethylamino-phenyl)-	
		phenylmethyl	
2886	"	4-(2-propylamino-phenyl)-	
		phenylmethyl	
2887		4-(2-methylsulfonylamino-	
		phenyl)-phenylmethyl	
2888	"	4-12-	
		trifluoromethylsulfonyl-	
		cillidoromethylsulfonyl-	
H	,,	amino-phenyl)-phenylmethyl	
2889	"	4-(3-methylphenyl)-	
		phenylmethyl	
2890	"	4-(3-isopropylphenyl)-	
		phenylmethyl	
2891	"	4-(3-	
		trifluoromethylsulfonyl-	
		amino-phenyl)-phenylmethyl	
2892	"	4-(3-methylsulfonylamino-	<u> </u>
		phenyl)-phenylmethyl	
2893		4-(3-amino-phenyl)-	
		phenylmethyl	
2004			
2894		4-(3-nitro-phenyl)-	
		phenylmethyl	

What is claimed:

1. A compound of the formula I:

$$R^{1}$$
 R_{2}
 R_{2}
 R_{3}
 R_{4}
 R_{4}
 R_{5}
 R_{2}
 R_{5}
 R_{5}
 R_{2}
 R_{5}
 R_{5}
 R_{5}
 R_{5}
 R_{5}

Formula I

or a pharmaceutically acceptable salt form or a steroisomer thereof, wherein:

 R^1 is selected from: $-\text{CO}_2\text{H}, -\text{C}_1(0) \text{ NHOH}, -\text{C}_1(0) \text{ NHOR}^7, -\text{SH}, -\text{CH}_2\text{CO}_2\text{R}^7, \\ -\text{COR}^7, -\text{N}_1(0\text{H}) \text{COR}^7, -\text{SN}_2\text{H}_2\text{R}^7, -\text{SONHR}^7, -\text{CH}_2\text{CO}_2\text{H}, \\ -\text{PO}_1(0\text{H})_2, -\text{PO}_1(0\text{H}) \text{ NHR}^7, -\text{CH}_2\text{SH}, -\text{C}_1(0) \text{ NHOR}^7, -\text{CO}_2\text{R}^7, \\ \text{and common prodrug derivatives;}$

 ${\ensuremath{\mathsf{R}}}^2$ is selected from the formula:

$$U-X-Y-Z-Ua-Xa-Ya-Za$$

wherein:

U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;

Y is absent or selected from H, O, NRa, S(O)p, and C(O);

- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 Rb and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 Rb;
- X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(0)_p$, and C(0);
- Z^a is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional

heteroatoms selected from the group consisting of N, O, and S;

- R^b , at each occurrence, is independently selected from C1-6 alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $S(0)_2NR^aR^a$, $S(0)_pR^a$, CF_3 , and CF_2CF_3 ;
- R^c , at each occurrence, is independently selected from C1-6 alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $NR^aS(0)_2R^a$, $S(0)_2NR^aR^a$, $S(0)_pR^a$, CF_3 , CF_2CF_3 , and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 R^3 is selected from the formula:

$$U-X-Y-Z-Ua-Xa-Ya-Za$$

wherein:

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, O, NR^a , $S(0)_p$, and C(0);
- Z is absent or selected from H, a C_{3-13} carbocyclic residue substituted with 0-5 $R^{\rm b}$ and a 5-14 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S substituted with $O-5\ R^{D}$;

- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), Ra, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀
 alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a, S(O)p, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- R^a, at each occurrence, is independently selected from
 H, C₁₋₄ alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;

R^c, at each occurrence, is independently selected from C1-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, NR^aS(0)₂R^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

- R⁴ is selected from:
 hydrogen, (C1-C5)alkyl, (C1-C5)alkyl-aryl,
- ${\tt R}^{\sf 5}$ and ${\tt R}^{\sf 6}$ are independently selected from:

$$U-X-Y-Z-Ua-Xa-Ya-Za$$

- U is absent or is selected from: O, NR^a, C(O), C(O)O,
 OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a,
 NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p,
 and NR^aSO₂NR^a;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

Ua is absent or is selected from: H, O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

- X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y^a is absent or selected from H, O, NR^a, S(O)_p, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^aR^a$, $S(O)_PR^a$, CF_3 , and CF_2CF_3 ;
- R^{C} , at each occurrence, is independently selected from C_{1-6} alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a'}$,

 $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a'$, $NR^aS(0)_2R^a'$, $S(0)_2NR^aR^a'$, $S(0)_pR^a$, CF_3 , CF_2CF_3 , and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 R^7 is selected from: $C_1 - C_{10}$ alkyl, alkylaryl, and common prodrug derivatives

A is selected from: SO₂, SO, CHOH;

E is $(CR^8R^9)_m-W-(CR^8R^9)_n$, wherein W can be absent or selected from: CH2, CO, O, S(O)_m and NR^{10}, m is 0-2, n is 0-2;

with the proviso that when W is O, S or NR^{10} then m must not be 0;

R8 and R9 is independently selected from:

H,

C1-C8 alkyl substituted with 0-5 Rb,

C1-C8 alkenyl,

C1-C8 alkylaryl substituted with 0-5 Rb,

C3-13 carbocyclic residue substituted with 0-5 Rb,

5-14 membered heterocyclic system containing from

1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 Rb;

amino,

C1-C8 alkyl-NR¹⁰

hydroxyl,

 ${\rm R}^{8}$ and ${\rm R}^{9}$ can also form a ring interrupted by ${\rm NR}^{10}$, O, S(O)m.

R¹⁰ is selected from:
hydrogen,
C1-C8 alkyl
C1-C8 alkylaryl

- $\rm J^1,\ J^2,\ J^3,\ J^4$ are independently selected from: CH,or N. with no more than two N in the cycle.
- 2. A compound of claim 1 wherein:
- R^1 is selected from: $-\text{CO}_2\text{H}, -\text{C}_1(0) \text{ NHOH}, -\text{C}_1(0) \text{ NHOR}^7, -\text{SH}, -\text{CH}_2\text{CO}_2\text{R}^7, \\ -\text{COR}^7, -\text{N}_1(0\text{H}) \text{COR}^7, -\text{SN}_2\text{H}_2\text{R}^7, -\text{SONHR}^7, -\text{CH}_2\text{CO}_2\text{H}, \\ -\text{PO}_1(0\text{H})_2, -\text{PO}_1(0\text{H}) \text{ NHR}^7, -\text{CH}_2\text{SH}, -\text{C}_1(0) \text{ NHOR}^7, -\text{CO}_2\text{R}^7, \\ \text{and common prodrug derivatives;}$

 ${\ensuremath{\mathsf{R}}}^2$ is selected from the formula:

$$U-X-Y-Z-Ua-Xa-Ya-Za$$

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and $C(O)_i$;

Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 Rb and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 Rb;

- Ua is absent or is selected from: H, O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a, S(O)p, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- Ra, at each occurrence, is independently selected from
 H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, pnenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;

 R^{b} , at each occurrence, is independently selected from C_{1-6} alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a'}$, $C(O)R^{a}$, $C(O)OR^{a}$, $C(O)NR^{a}R^{a'}$, $S(O)_{2}NR^{a}R^{a'}$, $S(O)_{p}R^{a}$, CF_{3} , and $CF_{2}CF_{3}$;

- R^{C} , at each occurrence, is independently selected from C1-6 alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a'}$, $C(O)R^{a}$, $C(O)OR^{a}$, $C(O)NR^{a}R^{a'}$, $NR^{a}S(O)_{2}R^{a'}$, $S(O)_{2}NR^{a}R^{a'}$, $S(O)_{p}R^{a}$, CF_{3} , $CF_{2}CF_{3}$, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- R^3 is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

Ua is absent or is selected from: H, O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

- Xa is absent or selected from H, C1-10 alkylene, C2-10
 alkenylene, C2-10 alkynylene;
- Y^a is absent or selected from H, O, NR^a, S(O)p, and C(O);
- Z^a is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- R^a, at each occurrence, is independently selected from
 H, C₁₋₄ alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^{b} , at each occurrence, is independently selected from C_{1-6} alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a}$, $C(0)R^{a}$, $C(0)OR^{a}$, $C(0)NR^{a}R^{a}$, $S(0)_{D}R^{a}$, CF_{3} , and $CF_{2}CF_{3}$;
- R^C, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =O, CN, NO₂,

NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0) $_2$ Ra', S(0) $_2$ NRaRa', S(0) $_2$ Ra, CF3, CF2CF3, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

- R⁴ is selected from: hydrogen,
- ${\tt R}^{\tt 5}$ and ${\tt R}^{\tt 6}$ are independently selected from:

U-X-Y-Z-Ua-Xa-Ya-Za

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;

X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

- Y^a is absent or selected from H, O, NR^a , $S(0)_p$, and $C(0)_i$
 - Z^a is absent or selected from H, a C_{3-13} carbocyclic residue substituted with 0-5 R^c and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^c ;
 - R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;
 - Ra', at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;
 - alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
 - Rb, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, and CF₂CF₃;
 - R^{C} , at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, NR^aS(0)₂R^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

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R^7 is selected from: C_1 - C_{10} alkyl, alkylaryl, and common
     prodrug derivatives
A is selected from:
     SO2, SO, CHOH;
E is (CR^8R^9)_{m}-W-(CR^8R^9)_{n},
     wherein W can be absent or selected from:
           CH_2, CO, O, S(O)_m and NR^{10},
           m is 0-2,
           n is 0-2;
     with the proviso that when W is O, S or NR^{10} then
           m must not be 0;
{\bf R}^{\bf 8} and {\bf R}^{\bf 9} is independently selected from:
     Η,
     C1-C8 alkyl substituted with 0-5 Rb,
     C1-C8 alkenyl,
     C1-C8 alkylaryl substituted with 0-5 Rb,
     C3-13 carbocyclic residue substituted with 0-5 Rb,
     5-14 membered heterocyclic system containing from
     1-4 heteroatoms selected from the group consisting
     of N, O, and S substituted with 0-5 Rb;
     amino,
     C1-C8 alkyl-NR10
     hydroxyl,
R^8 and R^9 can also form a ring interrupted by NR^{10}, O,
     S(0)m.
R^{10} is selected from:
     hydrogen,
     C1-C8 alkyl
     C1-C8 alkylaryl
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 $\rm J^1,\ J^2,\ J^3,\ J^4$ are independently selected from: CH,or N. with no more than two N in the cycle.

3. A compound of claim 1 wherein:

R¹ is selected from:
-CO₂H, -C(O)NHOH, -C(O)NHOR⁷, -SH, -CH₂CO₂R⁷,
and common prodrug derivatives;

 R^2 is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, Q, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), Ra, NR^aC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

 X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;

- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and $C(O)_t$;
- Za is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 RC and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 RC;
- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $S(0)_DR^a$, CF_3 , and CF_2CF_3 ;
- R^{C} , at each occurrence, is independently selected from C₁-6 alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a'}$, $C(0)R^{a}$, $C(0)OR^{a}$, $C(0)NR^{a}R^{a'}$, $NR^{a}S(0)_{2}R^{a'}$, $S(0)_{2}NR^{a}R^{a'}$, $S(0)_{p}R^{a}$, CF_{3} , $CF_{2}CF_{3}$, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 $\ensuremath{\mathsf{R}}^3$ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , S(O)p, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^c and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^c;

- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^b , at each occurrence, is independently selected from C1-6 alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $S(0)_DR^a$, CF_3 , and CF_2CF_3 ;
- R^C, at each occurrence, is independently selected from C1-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, NR^aS(0)₂R^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- R⁴ is selected from: hydrogen,
- ${\rm R}^{\rm 5}$ and ${\rm R}^{\rm 6}$ are independently selected from:

U-X-Y-Z-Ua-Xa-Ya-Za

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, O, NR^a , S(O)p, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO2NR^a;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a, S(O)_p, and C(O);
- ${
 m Z}^{
 m a}$ is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 ${
 m R}^{
 m C}$ and a 5-14 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S substituted with $O-5\ R^C$;

- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;
- R^{C} , at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, NR^aS(0)₂R^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- R^7 is selected from: C_1 - C_{10} alkyl, alkylaryl, and common prodrug derivatives
- A is selected from: SO₂, SO, CHOH;
- E is $(CR^8R^9)_m-W-(CR^8R^9)_n$, wherein W can be absent or selected from: CH_2 , CO, O, S(O)_m and NR¹⁰,

m is 0-2, n is 0-2;

with the proviso that when W is O, S or NR^{10} then m must not be O;

R⁸ and R⁹ is independently selected from:

H,

C1-C8 alkyl substituted with 0-5 R^b,

C1-C8 alkenyl,

C1-C8 alkylaryl substituted with 0-5 R^b,

C3-13 carbocyclic residue substituted with 0-5 R^b,

5-14 membered heterocyclic system containing from

1-4 heteroatoms selected from the group consisting

of N, O, and S substituted with 0-5 R^b;

amino,

C1-C8 alkyl-NR¹⁰

hydroxyl,

 ${\bf R}^{\bf 8}$ and ${\bf R}^{\bf 9}$ can also form a ring interrupted by ${\bf NR}^{\bf 10}$, O, ${\bf S}({\bf 0})\,{\bf m}$.

R¹⁰ is selected from:
 hydrogen,
 C1-C8 alkyl
 C1-C8 alkylaryl

 $\rm J^1,\ J^2,\ J^3,\ J^4$ are independently selected from: CH,or N. with no more than two N in the cycle.

4. A compound of the formula II:

$$R^{1} \xrightarrow{R^{3}} H \xrightarrow{OH} OH$$

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Formula II

or a pharmaceutically acceptable salt form or a steroisomer thereof, wherein:

 R^1 is selected from: $-CO_2H$, -C(O)NHOH, $-C(O)NHOR^7$, -SH, $-CH_2CO_2R^7$, and common prodrug derivatives;

R² is selected from the formula:

$$U-X-Y-Z-Ua-Xa-Ya-Za$$

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 Rb and a 5-14 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S substituted with $0-5~\mathrm{R}^{\mathrm{b}};$

- Ua is absent or is selected from: H, O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Za is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 RC and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 RC;
- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C₁-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(O)Ra, C(O)ORa, C(O)NRaRa', S(O)₂NRaRa', S(O)_pRa, CF₃, and CF₂CF₃;

R^C, at each occurrence, is independently selected from C1-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(0)R^a, C(0)OR^a, C(0)NR^aRa', NR^aS(0)₂Ra', S(0)₂NR^aRa', S(0)_pRa, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 ${\ensuremath{\mathsf{R}}}^3$ is selected from the formula:

$$U-X-Y-Z-Ua-Xa-Ya-Za$$

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and $C(O)_i$;
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;

 X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;

- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Za is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 RC and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 RC;
- R^a, at each occurrence, is independently selected from
 H, C₁₋₄ alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $S(0)_2NR^aR^a$, $S(0)_pR^a$, CF_3 , and CF_2CF_3 ;
- RC, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0)2Ra', S(0)2NRaRa', S(0)pRa, CF3, CF2CF3, and a 5-14 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S;

R⁵ is selected from:

U-X-Y-Z-Ua-Xa-Ya-Za

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), Ra, NR^aC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

Z^a is absent or selected from H, a C₃-13 carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(O)R^a, C(O)OR^a, C(O)NR^aR^{a'}, S(O)₂NR^aR^{a'}, S(O)_pR^a, CF₃, and CF₂CF₃;
- R^{C} , at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0) R^a, C(0) OR^a, C(0) NR^aR^{a'}, NR^aS(0) 2R^{a'}, S(0) 2NR^aR^{a'}, S(0) pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- \mbox{R}^{7} is selected from: $\mbox{C}_{1}\mbox{-}\mbox{C}_{10}$ alkyl, alkylaryl, and common prodrug derivatives
- E is $(CR^8R^9)_m-W-(CR^8R^9)_n$, wherein W can be absent or selected from: CH2, CO, O, S(O)_m and NR¹⁰,

m is 0-2, n is 0-2;

with the proviso that when W is O, S or NR^{10} then m must not be O;

R⁸ and R⁹ is independently selected from:

H,

C1-C8 alkyl substituted with 0-5 R^b,

C1-C8 alkenyl,

C1-C8 alkylaryl substituted with 0-5 R^b,

C3-13 carbocyclic residue substituted with 0-5 R^b,

5-14 membered heterocyclic system containing from

1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

amino,

C1-C8 alkyl-NR¹⁰

 ${\bf R}^{8}$ and ${\bf R}^{9}$ can also form a ring interrupted by ${\bf NR}^{10}$, O, ${\bf S}({\bf O}){\bf m}$.

R¹⁰ is selected from:
 hydrogen,
 C1-C8 alkyl
 C1-C8 alkylaryl

hydroxyl,

 $\rm J^1,\ J^2,\ J^3,\ J^4$ are independently selected from: CH,or N. with no more than two N in the cycle.

5. A compound of claim 4 wherein:

R¹ is selected from:
 -C(O)NHOH,
 and common prodrug derivatives;

 ${\ensuremath{\mathsf{R}}}^2$ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a, S(O)_p, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);

Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^aR^a$, $S(O)_DR^a$, CF_3 , and CF_2CF_3 ;
- R^{C} , at each occurrence, is independently selected from C_{1-6} alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a}$, $C(O)R^{a}$, $C(O)OR^{a}$, $C(O)NR^{a}R^{a}$, $NR^{a}S(O)_{2}R^{a}$, $S(O)_{2}NR^{a}R^{a}$, $S(O)_{p}R^{a}$, CF_{3} , $CF_{2}CF_{3}$, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, N, and N;

 ${\ensuremath{\mathsf{R}}}^3$ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and $C(O)_i$;
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;

R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;

- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;
- RC, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0) $_2$ Ra', S(0) $_2$ NRaRa', S(0) $_2$ Ra, CF3, CF2CF3, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 R^5 is selected from:

U-X-Y-Z-Ua-Xa-Ya-Za

wherein:

X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;

- Y is absent or selected from H, O, NR^a, S(O)p, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;
- X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y^a is absent or selected from H, O, NR^a, S(O)_p, and C(O);
- Z^a is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^c and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^c ;
- R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;

 R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(O)R^a$, $C(O)OR^a$, $C(O)NR^aR^a$, $S(O)_2NR^aR^a$, $S(O)_pR^a$, CF_3 , and CF_2CF_3 ;

 R^{C} , at each occurrence, is independently selected from C1-6 alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a}$ ', $C(O)R^{a}$, $C(O)OR^{a}$, $C(O)NR^{a}R^{a}$ ', $NR^{a}S(O)_{2}R^{a}$ ', $S(O)_{2}NR^{a}R^{a}$ ', $S(O)_{p}R^{a}$, CF_{3} , $CF_{2}CF_{3}$, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 \mbox{R}^{7} is selected from: $\mbox{C}_{1}\mbox{-}\mbox{C}_{10}$ alkyl, alkylaryl, and common prodrug derivatives

E is $(CR^8R^9)_m-W-(CR^8R^9)_n$, wherein W can be absent or selected from: CH2, CO, O, S(O)_m and NR^{10}, m is 0-2, n is 0-2;

with the proviso that when W is O, S or NR¹⁰ then m must not be O;

 R^8 and R^9 is independently selected from: H, $C1-C8 \text{ alkyl substituted with } 0-5 \text{ } R^b,$ C1-C8 alkenyl, $C1-C8 \text{ alkylaryl substituted with } 0-5 \text{ } R^b,$

C3-13 carbocyclic residue substituted with 0-5 $\rm R^b$, 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 $\rm R^b$; amino, C1-C8 alkyl-NR¹⁰ hydroxyl,

 ${\rm R}^{8}$ and ${\rm R}^{9}$ can also form a ring interrupted by ${\rm NR}^{10}$, O, ${\rm S}({\rm O}){\rm m}$.

R¹⁰ is selected from: hydrogen, C1-C8 alkyl C1-C8 alkylaryl

 $\rm J^1,\ J^2,\ J^3,\ J^4$ are independently selected from: CH,or N. with no more than two N in the cycle.

6. A compound of formula III wherein:

$$R^{1}$$
 R^{2}
 R^{3}
 R^{9}
 R^{9}
 R^{1}
 R^{2}
 R^{3}
 R^{4}
 R^{5}

Formula III

or a pharmaceutically acceptable salt form or a steroisomer thereof, wherein:

R¹ is selected from:
 -C(O)NHOH
 and common prodrug derivatives;

 ${\ensuremath{\mathsf{R}}}^2$ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- Ua is absent or is selected from: H, O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;

 Y^a is absent or selected from H, O, NR^a, S(O)p, and C(O);

- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- Ra, at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $S(0)_pR^a$, CF_3 , and CF_2CF_3 ;
- R^C, at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0)2Ra', S(0)2NRaRa', S(0)pRa, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;
- ${\ensuremath{\mathsf{R}}}^3$ is selected from the formula:

U-X-Y-Z-Ua-Xa-Ya-Za

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a, S(O)p, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- U^a is absent or is selected from: H, O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4

heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^{C} ;

- R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, Cl, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;
- R^C, at each occurrence, is independently selected from C1-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^a', C(0)R^a, C(0)OR^a, C(0)NR^aR^a', NR^aS(0)₂R^a', S(0)₂NR^aR^a', S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

R⁵ is selected from:

U-X-Y-Z-Ua-Xa-Ya-Za

U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;

- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- Ua is absent or is selected from: H, O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;

Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^b , at each occurrence, is independently selected from C_{1-6} alkyl, OR^a , Cl, F, Br, I, =0, CN, NO_2 , NR^aR^a , $C(0)R^a$, $C(0)OR^a$, $C(0)NR^aR^a$, $S(0)_2NR^aR^a$, $S(0)_pR^a$, CF_3 , and CF_2CF_3 ;

 R^{C} , at each occurrence, is independently selected from C₁₋₆ alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aR^{a'}, C(0)R^a, C(0)OR^a, C(0)NR^aR^{a'}, NR^aS(0)₂R^{a'}, S(0)₂NR^aR^{a'}, S(0)_pR^a, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

R⁸ and R⁹ is independently selected from:

H,

C1-C8 alkyl substituted with 0-5 R^b,

C1-C8 alkenyl,

C1-C8 alkylaryl substituted with 0-5 R^b,

C3-13 carbocyclic residue substituted with 0-5 R^b,

5-14 membered heterocyclic system containing from

1-4 heteroatoms selected from the group consisting of

N, O, and S substituted with 0-5 R^b;

amino,

C1-C8 alkyl-NR¹⁰

hydroxyl,

 ${\rm R}^{8}$ and ${\rm R}^{9}$ can also form a ring interrupted by NR¹⁰, O, S(O)m.

R¹⁰ is selected from:
 hydrogen,
 C1-C8 alkyl
 C1-C8 alkylaryl

 $\rm J^1,\ J^2,\ J^3,\ J^4$ are independently selected from: CH,or N. with no more than two N in the cycle.

7. A compound of the formula IV:

HO
$$R_2$$
 R_2 R_3 R_4 R_9 R_5

or a pharmaceutically acceptable salt form or a steroisomer therof, wherein:

 ${\ensuremath{\mathsf{R}}}^2$ is selected from the formula:

wherein:

U is absent or is selected from: O, NRa, C(O), C(O)O,
OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa,
NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p,
and NRaSO2NRa;

X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;

- Y is absent or selected from H, O, NR^a, S(O)_p, and C(O);
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;
- X^a is absent or selected from H, C₁₋₁₀ alkylene, C₂₋₁₀ alkenylene, C₂₋₁₀ alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C ;
- Ra, at each occurrence, is independently selected from
 H, C1-4 alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;

alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;

- Rb, at each occurrence, is independently selected from C₁-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)₂NRaRa', S(0)_pRa, CF₃, and CF₂CF₃;
- R^C, at each occurrence, is independently selected from C1-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0)₂Ra', S(0)₂NRaRa', S(0)_pRa, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

 R^3 is selected from the formula:

$$U-X-Y-Z-Ua-Xa-Ya-Za$$

wherein:

- U is absent or is selected from: O, NR^a, C(O), C(O)O, OC(O), C(O)NR^a, NR^aC(O), OC(O)O, OC(O)NR^a, NR^aC(O)O, NR^aC(O)NR^a, S(O)p, S(O)pNR^a, NR^aS(O)p, and NR^aSO₂NR^a;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a, S(O)_p, and C(O);

T is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

- X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C3-13 carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C ;
- R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;
- $R^{a'}$, at each occurrence, is independently selected from H, C_{1-4} alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;

Rb, at each occurrence, is independently selected from C1-6 alkyl, ORa, C1, F, Br, I, =0, CN, NO2, NRaRa', C(0)Ra, C(0)ORa, C(0)NRaRa', S(0)2NRaRa', S(0)pRa, CF3, and CF2CF3;

R^C, at each occurrence, is independently selected from C1-6 alkyl, OR^a, Cl, F, Br, I, =0, CN, NO₂, NR^aRa', C(0)Ra, C(0)ORa, C(0)NRaRa', NRaS(0)₂Ra', S(0)₂NRaRa', S(0)_pRa, CF₃, CF₂CF₃, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

R⁵ is selected from:

$$U-X-Y-Z-Ua-Xa-Ya-Za$$

wherein:

- U is absent or is selected from: O, NRa, C(O), C(O)O, OC(O), C(O)NRa, NRaC(O), OC(O)O, OC(O)NRa, NRaC(O)O, NRaC(O)NRa, S(O)p, S(O)pNRa, NRaS(O)p, and NRaSO2NRa;
- X is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y is absent or selected from H, O, NR^a , $S(O)_p$, and $C(O)_i$
- Z is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^b and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^b;

- X^a is absent or selected from H, C_{1-10} alkylene, C_{2-10} alkenylene, C_{2-10} alkynylene;
- Y^a is absent or selected from H, O, NR^a , $S(O)_p$, and C(O);
- Z^a is absent or selected from H, a C₃₋₁₃ carbocyclic residue substituted with 0-5 R^C and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S substituted with 0-5 R^C;
- R^a, at each occurrence, is independently selected from H, C₁₋₄ alkyl, phenyl or benzyl;
- Ra', at each occurrence, is independently selected from H, C1-4 alkyl, phenyl or benzyl;
- alternatively, R^a and R^{a'} taken together with the nitrogen to which they are attached form a 5 or 6 membered ring containing from 0-1 additional heteroatoms selected from the group consisting of N, O, and S;
- R^{b} , at each occurrence, is independently selected from C_{1-6} alkyl, OR^{a} , Cl, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a}$, $C(O)R^{a}$, $C(O)OR^{a}$, $C(O)NR^{a}R^{a}$, $S(O)_{D}R^{a}$, CF_{3} , and $CF_{2}CF_{3}$;

 R^{C} , at each occurrence, is independently selected from C1-6 alkyl, OR^{a} , C1, F, Br, I, =0, CN, NO_{2} , $NR^{a}R^{a}$, C(0) R^{a} , C(0) R^{a} , C(0) R^{a} , C(0) R^{a} , C(0) R^{a} , C(0) R^{a} , C(0) R^{a} , CF3, CF2CF3, and a 5-14 membered heterocyclic system containing from 1-4 heteroatoms selected from the group consisting of N, O, and S;

R⁸ and R⁹ is independently selected from:

H,

C1-C8 alkyl substituted with 0-5 R^b,

C1-C8 alkenyl,

C1-C8 alkylaryl substituted with 0-5 R^b,

C3-13 carbocyclic residue substituted with 0-5 R^b,

5-14 membered heterocyclic system containing from

1-4 heteroatoms selected from the group

consisting of N, O, and S substituted with 0-5 R^b;

amino,

C1-C8 alkyl-NR¹⁰

 R^8 and R^9 can also form a ring interrupted by NR^{10} , O, S(O)m.

R¹⁰ is selected from:
hydrogen,
C1-C8 alkyl
C1-C8 alkylaryl

hydroxyl,

8. A compound of claim 1, selected from the group consisting of:

N1-(2(R)-hydroxy-1(S)-indanyl)- N4-hydroxy-2(R)-isobutyl-butanediamide;

N1-(2(R)-hydroxy-1(S)-indanyl)- N4-hydroxy-2(R)-isobutyl-3(S)-(5-hydroxycarbonyl)-pentanamide;

$$N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-methoxy-phenyl)methyl]butanediamide;$$

- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(methoxy-phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-trifluoromethyl-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-tert-butylaminosulfonyl-phenyl)phenyl]methyl]-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-methoxy-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[(3-hydroxy-4-methoxy-phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-(3-thiophene)isoxazoline]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-chloro-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-benzofuran)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-methyl-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3,4-(methylenedioxy-phenyl)phenyl]methyl]butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-tetrazole-phenyl)phenyl]methyl]butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-methyl-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(amino-phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(benzyloxy-carbonyl)amino]phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-hydroxymethlene)phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,4,5-trimethoxy-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2,4-di-methoxy-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,5-di-chloro-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-trifluoromethyl-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-isopropyl-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2,4-dichloro-phenyl)phenyl]methyl]butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-chloro-4-fluoro-phenyl)phenyl]methyl]butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(p-toluenesulfonyl-amino)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-phenylmethyl-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,4-methylenedioxyphenyl)phenyl]methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-methoxyphenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-fluorophenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(fluoro-phenyl)methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-nitrophenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-(methylsulfonyl-amino)-phenyl)phenyl]methyl]-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3-trimethylsilyl-propyl)-butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2,2-dimethyl-propionamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(ethyloxy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(iso-butyloxy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(propionamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-methyl-cyclopropane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2,2-dimethylpropyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(methylsulfonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-amino-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(methylsulfonylamino)-phenyl)methyl]-butanediamide;
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$$N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-hydroxy-phenyl)methyl]butanediamide;$$

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(hydroxy-phenyl)methyl]butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(fluoro-phenyl)methyl]butanediamide:
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3,4-(methylenedioxy-phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(methoxy-phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-trifluoromethyl-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-tert-butylaminosulfonyl-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-methoxy-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[(3-hydroxy-4-methoxy-phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-(3-thiophene)isoxazoline]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-chloro-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-benzofuran)phenyl]methyl]butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-methyl-phenyl)phenyl]methyl]butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3,4-(methylenedioxy-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-tetrazole-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[3-methyl-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4-(amino-phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(benzyloxy-carbonyl)amino]phenyl)methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-hydroxymethlene)phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,4,5-trimethoxy-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2,4-di-methoxy-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,5-di-chloro-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2-trifluoromethyl-phenyl)phenyl]methyl]butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-isopropyl-phenyl)phenyl]methyl]butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(2,4-dichloro-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-chloro-4-fluoro-phenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(p-toluenesulfonyl-amino)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-phenylmethyl-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3,4-methylenedioxyphenyl)phenyl]methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-methoxyphenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-fluorophenyl)phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(fluoro-phenyl)methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(tert-butylxoy-carbonyl-amino)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-nitrophenyl)phenyl]methyl]butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[[4-(3-(methylsulfonyl-amino)-phenyl]methyl]butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3-trimethylsilyl-propyl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2,2-dimethylpropionamido)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(ethyloxy-carbonyl-amino)butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(iso-butyloxy-carbonyl-amino)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(propionamido)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-methyl-cyclopropane carboxamido-1-yl)-butanediamide;
 - N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2,2-dimethylpropyl-amino)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(methylsulfonyl-amino)-butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-amino-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclobutane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-hydroxymethyl-isobutanamide)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-hydroxyl-cyclopropane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-phenyl-cyclopropane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(bezene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-cyano-cyclopropane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-phenyl-cyclopentane carboxamido-1-yl)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-methyl-cyclohexane carboxamido-1-yl)-butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-indole carboxamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-furan carboxamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-quinoline carboxamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3,4,5-trimethoxy benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methyl-3-amino-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methyl-6-amino-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3-pyridine carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-(2,4-dichloro-phenyl)-cyclopropane carboxamido-1-yl)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-(4-chloro-phenyl)-cyclopropane carboxamido-1-yl)-butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3-methylsulfonyl)-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methylsulfonyl-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(3-cyano-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(6-quinoline carboxamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-ethyl,3-methyl-pyrazole 5-carboxamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3-(4-morpholino-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-chloro-4methylsulfonyl-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(4-(imidazol-1-yl)benzene carboxamido-1-yl)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-thiophene carboxamido-1-yl)-butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-tert-butyl,3-methyl-pyrazole 5- carboxamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(4-aminomethyl benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-hydroxyl-isobutanamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclopropane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclopentane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-cyclopentyl acetamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclohexane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(4-(4-N-Boc-piperazinyl-1-yl)benzene carboxamido-1-yl)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(4-(piperazinyl-1-yl)benzene carboxamido-1-yl)-butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-Fluoro-6-chloro-benzene carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-amino-cyclohexane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methylthio-acetamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indany1]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methoxy-acetamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-allyl-cyclopentane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-n-propyl-cyclopentane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-allyl-cyclopropane carboxamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(8-quinoline-sulfonamido)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(4-nitro-benzene sulfonamido)-butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1,4-di-methyl-2-chloro-pyrazole-3-sulfonamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1,5-dimethyl-isooxazole3-sulfonamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-methyl-imidazole 3-sulfonamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(benzene sulfonamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1,4-dimethyl pyrazole 3-sulfonamido)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methylsulfonyl benzene sulfonamido-1-yl)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclohexylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(iso-propylamino)-butanediamide;

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N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[4(2-trifluoromethylphenyl)-phenylmethyl]-3(S)-(2,2-dimethylpropyl-amino)-butanediamide;
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- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclopentylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(cyclopropylmethyl)-butanediamide:
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(benzylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-furanmethylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-4-methylphenyl)methyl]-3(S)-(3-cyanophenylmethylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2,2-dimethylpropyl-amino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-pentylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(bis-cyclopropylmethyamino)-butanediamide;

N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-thiophenemethylamino)-butanediamide;

- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(2-methyl-propylamino)-butanediamide;
- N1-[2(R)-hydroxy-1(S)-indanyl]-N4-hydroxy-2(R)-[3-(hydroxy-phenyl)methyl]-3(S)-(1-methyl-cyclopropane carboxamido-1-yl)-butanediamide;
- 9. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 1.
- 10. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 2.
- 11. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 3.
- 12. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 4.
- 13. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a

therapeutically effective amount of a compound of Claim 5.

- 14. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 6.
- 15. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 7.
- 16. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 8.
- 17. A method of treating an inflammatory disease in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 1.
- 18. A method of treating an inflammatory disease in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 2.
- 19. A method of treating an inflammatory disease in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 3.
- 20. A method of treating an inflammatory disease in a mammal comprising administering to the mammal in

need of such treatment a therapeutically effective amount of a compound of Claim 4.

- 21. A method of treating an inflammatory disease in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 5.
- 22. A method of treating an inflammatory disease in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 6.
- 23. A method of treating an inflammatory disease in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 7.
- 24. A method of treating an inflammatory disease in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 8.
- 25. A method of treating a condition or disease mediated by MMPs and/or TNF and/or aggrecanase in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 1.
- 26. A method of treating a condition or disease mediated by MMPs and/or TNF and/or aggrecanase in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 2.

27. A method of treating a condition or disease mediated by MMPs and/or TNF and/or aggrecanase in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 3.

- 28. A method of treating a condition or disease mediated by MMPs and/or TNF and/or aggrecanase in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 4.
- 29. A method of treating a condition or disease mediated by MMPs and/or TNF and/or aggrecanase in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 5.
- 30. A method of treating a condition or disease mediated by MMPs and/or TNF and/or aggrecanase in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 6.
- 31. A method of treating a condition or disease mediated by MMPs and/or TNF and/or aggrecanase in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 7.
- 32. A method of treating a condition or disease mediated by MMPs and/or TNF and/or aggrecanase in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 8.

33. A method of treating a condition or disease wherein the disease or condition is referred to as rheumatoid arthritis, osteoarthritis, periodontitis, gingivitis, corneal ulceration, solid tumor growth and tumor invasion by secondary metastases, neovascular glaucoma, multiple sclerosis, or psoriasis in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 1.

- 34. A method of treating a condition or disease wherein the disease or condition is referred to as rheumatoid arthritis, osteoarthritis, periodontitis, gingivitis, corneal ulceration, solid tumor growth and tumor invasion by secondary metastases, neovascular glaucoma, multiple sclerosis, or psoriasis in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 2.
- 35. A method of treating a condition or disease wherein the disease or condition is referred to as rheumatoid arthritis, osteoarthritis, periodontitis, gingivitis, corneal ulceration, solid tumor growth and tumor invasion by secondary metastases, neovascular glaucoma, multiple sclerosis, or psoriasis in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 3.
- 36. A method of treating a condition or disease wherein the disease or condition is referred to as rheumatoid arthritis, osteoarthritis, periodontitis, gingivitis, corneal ulceration, solid tumor growth and tumor invasion by secondary metastases, neovascular glaucoma, multiple sclerosis, or psoriasis in a mammal

comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 4.

- 37. A method of treating a condition or disease wherein the disease or condition is referred to as rheumatoid arthritis, osteoarthritis, periodontitis, gingivitis, corneal ulceration, solid tumor growth and tumor invasion by secondary metastases, neovascular glaucoma, multiple sclerosis, or psoriasis in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 5.
- 38. A method of treating a condition or disease wherein the disease or condition is referred to as rheumatoid arthritis, osteoarthritis, periodontitis, gingivitis, corneal ulceration, solid tumor growth and tumor invasion by secondary metastases, neovascular glaucoma, multiple sclerosis, or psoriasis in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 6.
- 39. A method of treating a condition or disease wherein the disease or condition is referred to as rheumatoid arthritis, osteoarthritis, periodontitis, gingivitis, corneal ulceration, solid tumor growth and tumor invasion by secondary metastases, neovascular glaucoma, multiple sclerosis, or psoriasis in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 7.
- 40. A method of treating a condition or disease wherein the disease or condition is referred to as

rheumatoid arthritis, osteoarthritis, periodontitis, gingivitis, corneal ulceration, solid tumor growth and tumor invasion by secondary metastases, neovascular glaucoma, multiple sclerosis, or psoriasis in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 8.

- 41. A method of treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation, cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 1.
- 42. A method of treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation, cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 2.
- 43. A method of treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation, cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such

treatment a therapeutically effective amount of a compound of Claim 3.

- 44. A method of treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation, cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 4.
- 45. A method of treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation, cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 5.
- 46. A method of treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation, cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 6.
- 47. A method of treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation,

cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 7.

48. A method of treating a condition or disease wherein the disease or condition is referred to as fever, cardiovascular effects, hemorrhage, coagulation, cachexia, anorexia, alcoholism, acute phase response, acute infection, shock, graft versus host reaction, autoimmune disease or HIV infection in a mammal comprising administering to the mammal in need of such treatment a therapeutically effective amount of a compound of Claim 8.